

<b>SOLICITATION, OFFER AND AWARD</b>			<b>1. This Contract Is A Rated Order Under DPAS (15 CFR 700)</b>		<b>Rating</b> DOA4	<b>Page</b> 1 <b>of</b> 38
<b>2. Contract No.</b>		<b>3. Solicitation No.</b> W56HZV-07-R-0422		<b>4. Type of Solicitation</b> Negotiated (RFP)	<b>5. Date Issued</b> 2007MAY29	<b>6. Requisition/Purchase No.</b> SEE SCHEDULE
<b>7. Issued By</b> U.S. ARMY TACOM LCMC AMSTA-AQ-ASGD WARREN, MICHIGAN 48397-5000  HTTP://CONTRACTING.TACOM.ARMY.MIL			<b>Code</b> W56HZV	<b>8. Address Offer To (If Other Than Item 7)</b>		

**SOLICITATION** NOTE: In sealed bid solicitations 'offer' and 'offeror' mean 'bid' and 'bidder'.

**9. Sealed offers in original and** 1 signed **copies for furnishing the supplies or services in the Schedule will be received at the place specified in item 8, or if handcarried, in the depository located in** \_\_\_\_\_ **until** 03:00pm **(hour) local time** 2007JUN27 **(Date).**

**Caution - Late Submissions, Modifications, and Withdrawals:** See Section L, Provision No. 52.214-7 or 52.215-1. All offers are subject to all terms and conditions contained in this solicitation.

<b>10. For Information Call:</b>	<b>Name</b> HARMONY HUNSANGER <b>E-mail address:</b> HARMONY.HUNSANGER@US.ARMY.MIL	<b>Telephone No. (Include Area Code) (NO Collect Calls)</b> (586) 574-7239
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**OFFER (Must be fully completed by offeror)**

**NOTE:** Item 12 does not apply if the solicitation includes the provisions at 52.214-16, Minimum Bid Acceptance Period.

**12. In compliance with the above, the undersigned agrees, if this offer is accepted within** \_\_\_\_\_ **calendar days (60 calendar days unless a different period is inserted by the offeror) from the date for receipt of offers specified above, to furnish any or all items upon which prices are offered at the price set opposite each item, delivered at the designated point(s), within the time specified in the schedule.**

**13. Discount For Prompt Payment**  
(See Section I, Clause No. 52.232-8)

<b>14. Acknowledgment of Amendments (The offeror acknowledges receipt of amendments to the Solicitation for offerors and related documents numbered and dated:</b>	<b>Amendment Number</b>	<b>Date</b>	<b>Amendment Number</b>	<b>Date</b>

<b>15A. Contractor/Offeror/Quoter</b>	<b>Code</b>	<b>Facility</b>	<b>16. Name and Title of Person Authorized to Sign Offer (Type or Print)</b>
<b>15B. Telephone Number (Include Area Code)</b>			<b>17. Signature</b>
<b>15C. Check if Remittance Address is</b> <input type="checkbox"/> <b>Different From Blk 15A- Furnish Such Address In Offer</b>			<b>18. Offer Date</b>

**AWARD (To be completed by Government)**

<b>19. Accepted As To Items Numbered</b>	<b>20. Amount</b>	<b>21. Accounting And Appropriation</b>	
<b>22. Authority For Using Other Than Full And Open Competition:</b> <input type="checkbox"/> 10 U.S.C. 2304(c)( ) <input type="checkbox"/> 41 U.S.C. 253(c)( )		<b>23. Submit Invoices To Address Shown In</b> (4 copies unless otherwise specified)	<b>Item</b>
<b>24. Administered By (If other than Item 7)</b>	<b>Code</b>	<b>25. Payment Will Be Made By</b>	<b>Code</b>
SCD PAS ADP PT			
<b>26. Name of Contracting Officer (Type or Print)</b>		<b>27. United States Of America</b>  _____ /SIGNED/ (Signature of Contracting Officer)	<b>28. Award Date</b>

**IMPORTANT - Award will be made on this Form, or on Standard Form 26, or by other authorized official written notice.**

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SECTION A - SUPPLEMENTAL INFORMATION

Acknowledge all the amendments you've received from us by identifying the amendment number and its issue date in the box below:

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[End of Clause]

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
A-1	52.201-4000 (TACOM)	TACOM-WARREN OMBUDSPERSON	JAN/2006

Information regarding the TACOM-Warren Ombudsperson is located at the website <http://contracting.tacom.army.mil/acqinfo/ombudsperson.htm>

[End of Clause]

A-2	52.204-4016 (TACOM)	TACOM-WARREN ELECTRONIC CONTRACTING	SEP/2006
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- (a) All TACOM solicitations and awards are distributed on the TACOM Warren Business Opportunities web page (<http://contracting.tacom.army.mil/opportunity.htm>) and are no longer available in hard copy. The TDPs and other documents, when available electronically, will be an attachment or linked to the solicitation package on the web.
- (b) You may need to use special software to view documents that we post on the home page. This viewing software is freeware, available for download at no cost from commercial web sites like Microsoft and Adobe. In cases where such software is required, we provide a link from our page to the commercial site where the software is available. Once you arrive at the software developer's site, follow their instructions to download the free viewer. You then can return to the TACOM home page.
- (c) Unless otherwise authorized in this solicitation, you are required to submit your offer, bid, or quote electronically, normally via email or datafax. For detailed information about submitting your offer electronically, please see <http://contracting.tacom.army.mil/acqinfo/ebidnotice.htm>.
- (1) The proper TACOM addresses for offer submission are:
- (i) RFQs: Email your quote to the contract specialist's email address found on the RFQ cover sheet or the DD Form 1155.
- (ii) RFP and Sealed Bidding: Email your offer to: [offers@tacom.army.mil](mailto:offers@tacom.army.mil) If you datafax your proposal/bid, address your header to: [offers@tacom.army.mil](mailto:offers@tacom.army.mil) and fax to the TACOM Network fax Server at datafax number 1-586-574-5527.
- (2) When datafaxing or emailing an offer, the submitted file cannot exceed 7 megabytes. Clearly state Quote, Offer, or Bid on your fax cover page or on the subject line of the e-mail. Use only one of the terms Quotation, Offer, or Bid depending on the solicitation type. Include your company name and annotate the proper internal TACOM address for proper internal routing.
- (3) Authentication for datafax submission is verified by the offeror returned address. Quotes, Bids, or Offers may be sent via datafax using a personal computer or a standalone datafax machine. If you are submitting a datafax, a confirmation of receipt for TACOM-Warren will not be sent.
- (d) Any award issued as a result of this solicitation will be distributed electronically. Awards posted on the TACOM Warren Business Opportunities web page represent complete OFFICIAL copies of contract awards and will include the awarded unit price. This is the notice required by Executive Order 12600 (June 23, 1987) of our intention to release unit prices in response to any request under the

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Freedom of Information Act (FOIA), 5 USC 552. Unit price is defined as the contract price per unit or item purchased as it appears in Section B of the contract and is NOT referring to nor does it include Cost or Pricing data/information. If you object to such release, and you intend on submitting an offer, notify the PCO in writing prior to the closing date identified in this solicitation and include the rationale for your objection consistent with the provisions of FOIA. A release determination will be made based on rationale given.

(e) If you have questions or need help in using the Acquisition Center Home Page, call our Electronic Contracting Help Desk at (586) 574-7059, or send an email message to: [acqcenweb@tacom.army.mil](mailto:acqcenweb@tacom.army.mil) . If you have questions about the content of any specific item posted on our home page, please call the buyer or point of contact listed for the item. For technical assistance in doing business with the Government, and doing business electronically, please visit the Procurement Technical Assistance Center Website at <http://www.aptac-us.org/new/> to find a location near you.

[End of Clause]

A-3	52.214-4003 (TACOM)	ALL OR NONE	MAR/1998
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Offers in response to this solicitation must be submitted for the total quantity of the items identified in the solicitation.

- (1) ONLY ONE AWARD WILL BE MADE AS A RESULT OF THIS SOLICITATION.
- (2) OFFERS SUBMITTED FOR LESS THAN THE TOTAL QUANTITIES OF ALL THE ITEMS IN THIS SOLICITATION ARE INELIGIBLE FOR AWARD.

[End of clause]

**Name of Offeror or Contractor:**

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS				
0001	<div>SERVICES LINE ITEM</div> <div>SECURITY CLASS: Unclassified</div> <div>Contractor shall furnish all the supplies and services to accomplish the tasks for the basic effort specified in Section C "Scope of Work."</div> <div>Cost Reimburseable Only (No Fee)</div> <div>Est. Total Cost:    \$_____</div> <div>(End of narrative B001)</div>				\$_____
0002	<div>DATA ITEM</div> <div>SECURITY CLASS: Unclassified</div> <div>Technical Data as set forth in Contract Data Requirements List (DD Form 1423) hereinafter referred to as Exhibit A.</div> <div>(End of narrative B001)</div> <div> <u>Inspection and Acceptance</u>  INSPECTION: Destination      ACCEPTANCE: Destination </div>			\$_____ ** NSP **	\$_____ ** NSP **
0003	<div>DATA ITEM</div> <div>SECURITY CLASS: Unclassified</div> <div>Contractor Manpower Reporting (CMR) (reference section C-2)</div> <div>Unit Identification Code (UIC):    W4GHAA</div> <div>(End of narrative B001)</div>			\$_____ ** NSP **	\$_____ ** NSP **

**Name of Offeror or Contractor:**

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	<u>Inspection and Acceptance</u> INSPECTION: Destination      ACCEPTANCE: Destination				

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B.1            ESTIMATED COST, FIXED FEE AND PAYMENT

B.1.1            The estimated cost to the Government for performance of work under the Contract is set forth in Section B. In consideration of performance of the work specified under CLINs 0001 and 0002, the Government will pay the Contractor the Estimated Cost amount shown in the Amount column across from CLIN 0001. The amount shown shall constitute the estimated cost for the purpose of the Contract Clause entitled "Limitation of Cost", but neither the Government nor the Contractor guarantee the accuracy of said estimate.

B.1.2            Allowable costs shall be determined and payment thereof, shall be provided in accordance with the Contract Clause hereof entitled "Allowable Cost and Payment", (Dec 2002), FAR 52.216-7.

B.2            FUNDING

B.2.1            The contractor shall notify the Government in accordance with the Contract Clause entitled "Limitation of Cost" whenever there is reason to believe that the funds allotted to this contract are either insufficient or excessive for the performance of the work required.

B.3            PAYMENT

B.3.1            The contractor may submit public vouchers every two weeks for payment under this contract.

\*\*\* END OF NARRATIVE B 0001 \*\*\*

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SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
C-1	52.204-4003 (TACOM)	START OF WORK MEETING	MAY/2000

The contractor shall host a start of work meeting at its facility, unless some other location is designated in the contract, within fifteen (15) days after contract award. The contractor shall at a minimum invite the Contracting Officer's Representative (COR) identified in Section G or in an appointment letter, the Contract Specialist identified on the face page of this document, and the Administrative Contracting Officer (ACO). The COR, Contract Specialist, and ACO shall be given at least 14 days advance notice of the time, date, and location of the start of work meeting. The preferred method of notification is by email.

[End of Clause]

C-2	52.237-4000 (TACOM)	CONTRACTOR MANPOWER REPORTING (CMR)	FEB/2007
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The Office of the Assistant Secretary of the Army (Manpower & Reserve Affairs) operates and maintains a secure Army data collection site where the contractor will report ALL contractor manpower (including subcontractor manpower) required for performance of this contract. The contractor is required to completely fill in all the information in the format using the following web address: <https://cmra.army.mil> . The required information includes the following:

- (1) Contracting Office, Contracting Officer, Contracting Officer's Technical Representative;
- (2) Contract number, including task and delivery order number;
- (3) Beginning and ending dates covered by reporting period;
- (4) Contractor name, address, phone number, e-mail address, identity of contractor employee entering data;
- (5) Estimated direct labor hours (including sub-contractors);
- (6) Estimated direct labor dollars paid this reporting period (including sub-contractors);
- (7) Total payments (including sub-contractors);
- (8) Predominant Federal Service Code (FSC) reflecting services provided by contractor (and separate predominant FSC for each sub-contractor if different);
- (9) Estimated data collection cost;
- (10) Organizational title associated with the Unit Identification Code (UIC) for the Army Requiring Activity (the Army Requiring Activity is responsible for providing the contractor with its UIC for the purposes of reporting this information);
- (11) Locations where contractor and sub-contractors perform the work (specified by zip code in the United States and nearest city, country, when in an overseas location, using standardized nomenclature provided on website);
- (12) Presence of deployment or contingency contract language; and
- (13) Number of contractor and sub-contractor employees deployed in theater this reporting period (by country).

As part of its submission, the contractor will also provide the estimated total cost (if any) incurred to comply with this reporting requirement. Reporting period will be the period of performance not to exceed 12 months ending September 30 of each government fiscal year and must be reported by 31 October of each calendar year.

[End of Clause]

C.0 SCOPE OF WORK

C.1 INTRODUCTION

C.1.1 Purpose  
The purpose of the Military Fuels Research Program is to develop improved conversion/synthesis technology such that Fischer-Tropsch (FT) fuel can be produced more economically and with the most desirable properties for use across DoD tactical ground, air, and marine fleets. The program consists of applied research to advance technology for production of military fuels from sources other than petroleum crude oil, particularly but not exclusively coal, and specifically conversion of those non-petroleum sources into military fuels employing FT synthesis technology. This research work provides for dual-use of FT fuels, including both civilian over-the-road trucks and military vehicles, as well as for other dual-use ground, air, and marine applications.

C.1.2 The contractor, acting as an independent contractor and not as an agent of the Government, shall provide the necessary services, personnel, and materials to perform this scope of work.

C.2 OBJECTIVES

C.2.1 Develop conversion/synthesis technology for production of Optimal FT Single Battlefield Fuel (SBF) as defined by key target properties in C.2.1.1.

C.2.1.1 Optimal FT SBF Key Target Properties (reference latest version of MIL-DTL-83133 for applicable test methods to determine fuel properties)

C.2.1.1.1 At 15 degrees Celsius, the density shall be between 0.751 kg/L minimum to 0.845 kg/L maximum.

C.2.1.1.1.1 Maximizing density within the above mentioned range, while also meeting target properties C.2.1.1.2 through C.2.1.1.8, will tend to also maximize volumetric energy density a desirable characteristic for fuel used in tactical/combat ground vehicles.

C.2.1.1.2 Product mixture of hydrocarbon compounds, with carbon numbers distributed throughout primarily the kerosene boiling range (C8 - C16), having the following distillation parameters per ASTM D 86 (ASTM D 2887 in parentheses)

C.2.1.1.2.1 At 10% recovered, the temperature shall be between 157 degrees Celsius (139 degrees Celsius) minimum and 205 degrees Celsius (186 degrees Celsius) maximum,

C.2.1.1.2.2 At 50% recovered, the temperature shall be between 168 degrees Celsius (175 degrees Celsius) minimum and 229 degrees Celsius (225 degrees Celsius) maximum,

C.2.1.1.2.3 At 90% recovered, the temperature shall be between 183 degrees Celsius (198 degrees Celsius) minimum and 262 degrees Celsius (275 degrees Celsius) maximum,

C.2.1.1.2.4 At final boiling point, the temperature shall be 300 degrees Celsius (330 degrees Celsius) maximum, and

C.2.1.1.2.5 Residue and Loss of 1.5% vol. maximum, each

C.2.1.1.3 Flash point of 38 degrees Celsius minimum

C.2.1.1.4 Freeze point of -47 degrees Celsius maximum

C.2.1.1.5 Viscosity at -20 degrees Celsius of 8.0 mm2/s maximum

C.2.1.1.6 Viscosity at 40 degrees Celsius of 1.3 mm2/s minimum

C.2.1.1.7 Aromatic content of 25.0% vol. maximum

C.2.1.1.8 Naphthalene content of 0.1% vol. maximum

C.2.1.2 The contractor shall develop catalysts and synthesis/conversion processes for production of Optimal FT SBF. As a part of this effort, the contractor shall conduct the following tasks:

C.2.1.2.1 Dual-Function Catalyst  
Develop a dual-function catalyst incorporating both hydrocracking and hydroisomerization capability and comprised of mixtures of platinum on both sulfated and tungstated zirconia on mesoporous amorphous silica-alumina supports that will allow production of Optimal FT SBF via conversion of FT long-chain hydrocarbons (FT wax).  
(i) Analyze the catalyst, including characterization of catalyst support surface and pore size, and catalyst

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- density, particle size, distribution, stability, and structure.
- (ii) Determine catalyst performance as indicated by reaction parameters including conversion, product yields and carbon number distribution and as related to key reaction conditions including temperature and pressure.
  - (iii) Report on catalyst characterization and performance.
- C.2.1.2.2      Hybrid Catalytic Process
- Develop a hybrid catalytic process incorporating both FT synthesis and hydrocracking / hydroisomerization reactions in single reactor targeting production of Optimal FT SBF.
- (i) Analyze the catalyst, including characterization of catalyst support surface and pore size, and catalyst density, particle size, distribution, stability, and structure.
  - (ii) Determine process performance as indicated by reaction parameters including conversion, product yields and carbon number distribution and as related to key reaction conditions including temperature and pressure.
  - (iii) Report on catalyst characterization and process performance.
- C.2.1.2.3      FT Synthesis with Incorporated alpha-Olefin Conversion
- Develop a FT synthesis process, incorporating both FT synthesis and conversion of alpha-olefins into aromatic compounds in single reactor, containing a mix of both a ruthenium-based FT catalyst supported on silica aerogel and a shape-selective zeolite catalyst together in one or more reactor beds, targeting production of aromatic-containing Optimal FT SBF.
- (i) Determine process performance as indicated by reaction parameters including conversion, selectivity, product yields and carbon number distribution and as related to key reaction conditions including temperature and pressure.
  - (ii) Determine process performance impacts including variation in alkane/aromatic ratio in product due to changes in catalyst composition including ratio of catalysts.
  - (iii) Determine adsorption and reactions of the catalyst active metals and characterization of the catalyst, including detailed cluster structures of the metal catalyst atoms and high resolution transmission electron microscopy, x-ray absorption fine structure, electron magnetic resonance, and x-ray diffraction analyses.
  - (iv) Report on process performance and impacts to performance due to changes in catalyst composition, adsorption and reactions of catalyst active metals, and characterization of the catalyst.
- C.2.1.2.4      Controlled Pyrolysis Process
- Develop a process utilizing controlled pyrolysis capable of converting FT wax, waste plastics and especially polyethylene (PE), or combinations of these, into products with carbon numbers in the kerosene/diesel range (C8 - C23), particularly products which upon subsequent hydrotreating and/or hydroisomerization could be used to produce Optimal FT SBF.
- (i) Determine process performance as indicated by reaction parameters including conversion, product yields and carbon number distribution and as related to key reaction conditions including residence time, temperature and pressure.
  - (ii) Determine process performance impacts from changes in feedstock including composition.
  - (iii) Develop a schematic of the process and on it indicate ranges of key process parameters.
  - (iv) Report on process performance, impacts to performance due to feedstock changes, and on the process schematic.
- C.2.2              Determine the boundaries of FT SBF as a function of key FT synthesis parameters.
- C.2.2.1            The contractor shall determine the boundaries of FT SBF as a function of key FT synthesis parameters including reactor catalyst, temperature, and pressure. As a part of this effort, the contractor shall conduct the following tasks:
- C.2.2.1.1          Conduct a study and report on the effects of catalyst composition and associated support properties on the yield and composition of total hydrocarbons produced during a single reaction run over time in a computer-controlled fixed-bed reactor system and suitable for producing Optimal FT SBF; this study shall be conducted on, but not limited to, three different catalyst compositions of high activity-selectivity-stability based on Fe with Cu, K, Mo and supported on pecan-sourced activated carbon.
- (i) Determine quantitative compositional changes of the total hydrocarbon stream leaving the reactor, in-situ, including all incondensable gases and all condensed liquids both organic and aqueous (if any), over the total time-on-stream (TOS) of no less than 100 hrs.
  - (ii) Determine physicochemical properties of the catalyst including particle size, reducibility, and dispersion, both pre- and post-reaction, including results for BET surface area, CO chemisorption, temperature programmed reduction, energy-dispersive spectroscopy, and x-ray diffraction analyses.
  - (iii) Analyze catalyst structure, including characterization by Mossbauer and X-ray absorption fine structure spectroscopic techniques.
  - (iv) Report on total hydrocarbon stream composition over TOS, pre- and post-reaction physiochemical properties of the catalyst, and catalyst characterization.
- C.2.3              Identify molecular groups and reactions that would allow production of Optimal FT SBF that minimizes shrinkage of affected fuel-wetted elastomer components used in fuel system sealing applications.
- C.2.3.1            The contractor shall identify molecular groups and reactions, including those that can occur during the FT synthesis step, which would allow production of Optimal FT SBF with elastomer swelling characteristics that minimize shrinkage of affected fuel-wetted elastomer components used in fuel system sealing applications. As a part of the effort, the contractor shall conduct the following tasks:

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C.2.3.1.1 Conduct a study and report on the changes in elastomer structure and behavior, including nitrile elastomers and changes in micro and meso structure and polymeric bonding, from changes in FT SBF composition including aromatic, isomerized, and oxygenated species.

- (i) Determine molecular structure and polymeric bonding including C near-edge x-ray adsorption fine structure spectroscopy and <sup>13</sup>C nuclear magnetic resonance analyses.
- (ii) Determine elastomer micro and meso structure including magnetic resonance imaging and high resolution transmission electron microscopic characterization of the catalyst.
- (iii) Report on elastomer structure and polymeric bonding.

C.2.4 Develop models to predict critical properties of FT SBF from the molecular composition of FT fuels.

C.2.4.1 The contractor shall develop models to predict critical properties of FT SBF from the functional groups or molecular composition that are present in the fuel. As a part of the effort, the contractor shall conduct the following tasks:

C.2.4.1.1 Develop a model and report on how this model is able to predict critical properties, including density, freezing point, and viscosity, from the molecular composition of a given FT product primarily in the kerosene boiling range (C8 - C16).

C.2.5 Develop FT technology that would be most viable for use in small FT SBF production plants near the battlefield.

C.2.5.1 The contractor shall develop FT technology that would target production of FT SBF utilizing synthesis/conversion processes, catalysts, and reactors most compatible with construction of small plants near the battlefield. As a part of the effort, the contractor shall conduct the following tasks:

C.2.5.1.1 Develop a FT synthesis (FTS) system, incorporating supercritical fluid recycle (SCF) and an integrated single tube fixed bed reactor configuration and catalyst architecture, that fully exploits the heat and mass transfer opportunities under SCF-FTS and is capable of tailored production of hydrocarbon compounds primarily in the kerosene range (C8 - C16) that could be used directly, or upon subsequent hydroisomerization, could be used for production of Optimal FT SBF.

- (i) Develop a mathematical equation that can accurately predict the thermodynamic properties (equation of state) of FT mixtures at conditions observed in the SCF-FTS process.
- (ii) Determine process performance as indicated by reaction parameters including conversion, selectivity, product yields and carbon number distribution and as related to key reaction conditions including temperature and pressure.
- (iii) Report on process performance, the equation of state for FT mixtures in this process, and how the SCF-FTS process, integrated reactor configuration and catalyst architecture is capable of tailored production resulting in production of Optimal FT SBF.

C.2.6 Identify innovations that would significantly improve the economics for production of Optimal FT SBF.

C.2.6.1 The contractor shall identify innovative FT synthesis and conversion processes, and specifically processing schemes that would significantly improve the economics of producing Optimal FT SBF. As a part of the effort, the contractor shall conduct the following tasks:

C.2.6.1.1 Develop and report on process models of candidate process schemes for economical production of Optimal FT SBF using simulation software and on simulations using these process schemes.

C.3 DELIVERABLES

C.3.1 Conference / Meeting Minutes  
The contractor shall record all working group minutes from the Start of Work Meeting, Program Reviews, all teleconferences and video conferences contributing to the achievement of objectives/milestones and submit to the U.S. Government in accordance with Exhibit A CDRL ITEM A001.

C.3.2 Final Technical Report  
The contractor shall prepare a Final Technical Report, including a written report and PowerPoint presentation, to document all the technical aspects and results of the contract effort to include the cited deliverables for each objective and task, as well as the finalized Research & Development (R&D) Program Plan. The contractor shall present a draft of the Final Technical Report in accordance with Exhibit A CDRL ITEM A002 to the U.S. Government 30 calendar days prior to end of the contract period of performance for review and comment; draft report to be returned to the contractor with 15 business days after submission. After receiving comments from the U.S. Government, the contractor shall deliver the complete Final Technical Report within 10 business days to the U.S. Government in accordance with Exhibit A CDRL ITEM A002.

C.3.3 Progress Reports  
The contractor shall submit progress reports at the end of every 90 days, beginning 90 days after contract award and no less than 5 business days in advance of the Program Reviews (see C.4.2). These reports shall summarize progress made during the period and the funds spent and/or committed as well as to report all experimental / detailed findings, gap analyses between

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deliverables, objectives, and milestones, problems, and mitigation strategies. The progress report shall be submitted to the U.S. Government in accordance with Exhibit A CDRL ITEM A003.

C.4 MONITORING AND CONTROL

C.4.1 Start of Work Meeting

The contractor will conduct the Start of Work Meeting at TARDEC within 30 days of the award of the contract. The contractor shall coordinate with the Contracting Officers Representative (COR) to schedule the specific date and time of the meeting. At the meeting, the contractor shall present their initial R&D Program Plan, review objectives, and define milestones for the program. At the meeting, the contractor shall present plans to the COR for accomplishing the contract objectives and milestones. The contractor shall cover all proposed aspects of their planned work effort to include potential delays. In addition, at the Start of Work meeting, the methods for tracking contract progress will be discussed and planned. The contractor shall provide copies of all briefing materials and minutes, utilized in the Start of Work Meeting, as part of the Final Technical Report.

C.4.2 Program Reviews

The contractor shall initiate, plan, coordinate and conduct quarterly Program Reviews of the contract effort and present them to the COR. The contractor shall provide copies of the briefing materials. The reviews may be held by Video Conference, Teleconference, or on site at either the contractor's location or the Government's location by mutual agreement. The time and location of the Program Reviews shall be projected at the Start of Work meeting and adjusted, by the COR and the contractor.

C.4.2.1 The contractor shall also develop and maintain currency of all R&D Plans, which shall describe the approach and tasks to meet each objective / milestone, and present the plans at the quarterly Program Reviews. At the Program Reviews, the contractor shall review the plans with the COR for approval prior to the implementation of these plans. The contractor shall include, as part of the minutes of the Program Reviews, the approved R&D Plans and deliver to the U.S. Government in accordance with Exhibit A, CDRL Item A001. The contractor shall include, as part of the Final Technical Report, the finalized R&D plans and have the information delivered to the U.S. Government in accordance with Exhibit A, CDRL Item A002.

C.5 GOVERNMENT FURNISHED EQUIPMENT

It is anticipated that no Government furnished equipment will be provided.

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SECTION D - PACKAGING AND MARKING

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
D-1	252.211-7003	ITEM IDENTIFICATION AND VALUATION (Alternate I version dated April 2005)	JUN/2005

NOTE: Paragraph (a) comes after paragraphs (b) through (d) below. It was placed there because it's content is inconsequential as none of the definitions contained therein are used in this Alternate I version of this DFARS clause.

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- (b) The Contractor shall deliver all items under a contract line, subline, or exhibit line item.
- (c) For each item delivered under a contract line, subline, or exhibit line item under paragraph (b) of this clause, in addition to the information provided as part of the Material Inspection and Receiving Report specified elsewhere in this contract, the Contractor shall report the Governments unit acquisition cost.
- (d) The Contractor shall submit the information required by paragraph (c) of this clause in accordance with the data submission procedures at <http://www.acq.osd.mil/dpap/UID/DataSubmission.htm>.

(a) Definitions. As used in this clause--

"Automatic identification device" means a device, such as a reader or interrogator, used to retrieve data encoded on machine-readable media.

- Concatenated unique item identifier means
- (1) For items that are serialized within the enterprise identifier, the linking together of the unique identifier data elements in order of the issuing agency code, enterprise identifier, and unique serial number within the enterprise identifier; or
  - (2) For items that are serialized within the original part, lot, or batch number, the linking together of the unique identifier data elements in order of the issuing agency code; enterprise identifier; original part, lot, or batch number; and serial number within the original part, lot, or batch number.

Data qualifier means a specified character (or string of characters) that immediately precedes a data field that defines the general category or intended use of the data that follows.

DoD recognized unique identification equivalent means a unique identification method that is in commercial use and has been recognized by DoD. All DoD recognized unique identification equivalents are listed at <http://www.acq.osd.mil/dpap/UID/equivalents.html>.

DoD unique item identification means a system of marking items delivered to DoD with unique item identifiers that have machine-readable data elements to distinguish an item from all other like and unlike items. For items that are serialized within the enterprise identifier, the unique item identifier shall include the data elements of the enterprise identifier and a unique serial number. For items that are serialized within the part, lot, or batch number within the enterprise identifier, the unique item identifier shall include the data elements of the enterprise identifier; the original part, lot, or batch number; and the serial number.

Enterprise means the entity (e.g., a manufacturer or vendor) responsible for assigning unique item identifiers to items.

Enterprise identifier means a code that is uniquely assigned to an enterprise by an issuing agency.

Governments unit acquisition cost means

- (1) For fixed-price type line, subline, or exhibit line items, the unit price identified in the contract at the time of delivery;
- (2) For cost-type or undefinitized line, subline, or exhibit line items, the Contractors estimated fully burdened unit cost to the Government at the time of delivery; and
- (3) For items produced under a time-and-materials contract, the Contractors estimated fully burdened unit cost to the Government at the time of delivery.

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Issuing agency means an organization responsible for assigning a non-repeatable identifier to an enterprise (i.e., Dun & Bradstreets Data Universal Numbering System (DUNS) Number, Uniform Code Council (UCC) /EAN International (EAN) Company Prefix, or Defense Logistics Information System (DLIS) Commercial and Government Entity (CAGE) Code.

Issuing agency code means a code that designates the registration (or controlling) authority for the enterprise identifier.

Item means a single hardware article or a single unit formed by a grouping of subassemblies, components, or constituent parts.

Lot or batch number means an identifying number assigned by the enterprise to a designated group of items, usually referred to as either a lot or a batch, all of which were manufactured under identical conditions.

Machine-readable means an automatic identification technology media, such as bar codes, contact memory buttons, radio frequency identification, or optical memory cards.

Original part number means a combination of numbers or letters assigned by the enterprise at item creation to a class of items with the same form, fit, function, and interface.

Parent item means the item assembly, intermediate component, or subassembly that has an embedded item with a unique item identifier or DoD recognized unique identification equivalent.

Serial number within the enterprise identifier means a combination of numbers, letters, or symbols assigned by the enterprise to an item that provides for the differentiation of that item from any other like and unlike item and is never used again within the enterprise.

Serial number within the part, lot, or batch number means a combination of numbers or letters assigned by the enterprise to an item that provides for the differentiation of that item from any other like item within a part, lot, or batch number assignment.

Serialization within the enterprise identifier means each item produced is assigned a serial number that is unique among all the tangible items produced by the enterprise and is never used again. The enterprise is responsible for ensuring unique serialization within the enterprise identifier.

Serialization within the part, lot, or batch number means each item of a particular part, lot, or batch number is assigned a unique serial number within that part, lot, or batch number assignment. The enterprise is responsible for ensuring unique serialization within the part, lot, or batch number within the enterprise identifier.

Unique item identifier means a set of data elements marked on items that is globally unique and unambiguous.

Unique item identifier type means a designator to indicate which method of uniquely identifying a part has been used. The current list of accepted unique item identifier types is maintained at [http://www.acq.osd.mil/dpap/UID/uid\\_types.html](http://www.acq.osd.mil/dpap/UID/uid_types.html)

[End of Clause]

**D.1      Packaging and Packing:**

The contractor shall package and pack any hardware items deliverable under this Contract, if any, in accordance with standard commercial practice to assure arrival at destination without damage or loss.

**D.2      Marking:**

The Contractor shall mark or tag all deliverables under this Contract with the following information:

- TACOM LCMC Contract Number
- Contractor's Name
- Contractor's Address
- A Description of the Deliverable

Name of Offeror or Contractor:

SECTION E - INSPECTION AND ACCEPTANCE

	Regulatory Cite	Title	Date
E-1	52.246-9	INSPECTION OF RESEARCH AND DEVELOPMENT (SHORT FORM)	APR/1984

E.2 Inspection and Acceptance Point:

Inspection and acceptance of all deliverables under this contract shall be made at Destination by the Contracting Officer's Representative (COR). The determination that the deliverables are complete and conform to the requirements of the contract will be made by the COR to assure the work and the results thereof are in accordance with the terms of the contract.

\*\*\* END OF NARRATIVE E 0001 \*\*\*

Name of Offeror or Contractor:

SECTION F - DELIVERIES OR PERFORMANCE

	Regulatory Cite	Title	Date
F-1	52.242-15	STOP WORK ORDER--(ALTERNATE I dated APR 1984)	AUG/1989
F-2	52.247-34	F.O.B. DESTINATION	NOV/1991

F.1 Delivery

F.1.1 Devliery of Data set forth in the Contract shall be in accordance with the Contract Data Requirements List, DD Form 1423.

F.1.2 All items other than data (if any) called for in the Contract shall be delivered FOB Destination to:

ATTN: Ms. Pat Muzzell (AMSRD-TAR-N), Mail Stop 272  
U.S. Army Tank Automotive Research, Development and Engineering Center  
6501 E. Eleven Mile Road  
Warren, MI 48397-5000

F.2 Performance

F.2.1 The period of performance shall be twelve (12) months from the date of award, including submission of final technical report.

F.2.2 The contractor shall submit a Draft Final Scientific and Technical Report thirty (30) days before the end of the period of performance completion date. Reports shall be submitted for review and comment to the U.S. Government and be returned to the Contractor within fifteen (15) days. After receiving comments from the U.S. Government, the Contractor shall deliver the complete Final Technical Report within fifteen (15) days to the U.S. Government in accordance with Exhibit A CDRL Item A002. Acceptance of Final Technical Report will constitute completion.

\*\*\* END OF NARRATIVE F 0001 \*\*\*

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SECTION G - CONTRACT ADMINISTRATION DATA

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
G-1	252.232-7003	ELECTRONIC SUBMISSION OF PAYMENT REQUESTS	JAN/2004
G-2	52.242-4016	COMMUNICATIONS	MAY/2000

Communications on technical matters pertaining to the contract shall be direct between the contractor and the Technical Representative. Communications for the Technical Representative shall be addressed to:

Name: Pat Muzzell  
E-mail: Pat.Muzzell@us.army.mil

The Administrative Contracting Officer's (ACO) name and email address are also provided if known at this time:

ACO: John Chiappe  
E-mail: John.Chiappe@navy.mil

Please see the appointment letters prepared at time of contract award for functions the Technical Representative and ACO will perform on this contract.

[End of Clause]

G-3	252.201-7000	CONTRACTING OFFICER'S REPRESENTATIVE	DEC/1991
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(a) Definition. Contracting Officer's Representative means an individual designated in accordance with subsection 201.602-2 of the Defense Federal Acquisition Regulation Supplement and authorized in writing by the contracting officer to perform specific technical or administrative functions.

(b) If the Contracting Officer designates a contracting officer's representative (COR), the Contractor will receive a copy of the written designation. It will specify the extent of the COR's authority to act on behalf of the contracting officer. The COR is not authorized to make any commitments or changes that will affect price, quality, quantity, delivery, or any other term or condition of the contract.

[End of Clause]

G-4	252.204-7006	BILLING INSTRUCTIONS	OCT/2005
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When submitting a request for payment, the Contractor shall--

- (a) Identify the contract line item(s) on the payment request that reasonably reflect contract work performance; and
- (b) Separately identify a payment amount for each contract line item included in the payment request.

[End of Clause]

G-5	52.204-4011 (TACOM)	PAYMENT INSTRUCTIONS FOR THE DEFENSE FINANCE AND ACCOUNTING SERVICE (DFAS)	OCT/2005
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In accordance with DFARS PGI 204.7108, the contract shall be paid in accordance with DFARS PGI 204.7108(d)(5), line item specific by cancellation date.

[End of Clause]

G-6	52.227-4004 (TACOM)	RELEASE OF INFORMATION	OCT/2003
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The contractor shall ensure that he complies with the requirements of Chapter 5, page 22, paragraph 5-48, of AR 360-1, The Army Public Affairs Program, dated 15 Sep 2000, prior to contemplated release of any procurement information. Approval of the Contracting Officer is required prior to release of any such information. AR 360-1 may be found at [http://www.usapa.army.mil/pdffiles/r360\\_1.pdf](http://www.usapa.army.mil/pdffiles/r360_1.pdf) .

[End of clause]  
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G-752.232-4005INVOICE INFORMATION REQUIREMENTJAN/1988

(TACOM)

On each payment request submitted, the Contractor shall identify each affected Contract Line Item Number (CLIN), sub-CLIN, and/or work directive, together with the related dollar amounts. This requirement does not diminish or restrict any other requirement of this contract.

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G.1DFAS: SPECIAL PAYMENT INSTRUCTIONS:

DFAS will make payments as billed by the contractor.

G.2SPECIAL BILLING INSTRUCTIONS:

The CONTRACTOR shall bill costs against the six digit SubCLIN and related ACRN (Example:AA, AB or AC) as shown in Section G of this award. This six digit SubCLIN and related ACRN shall be identified on each invoice or payment voucher submitted against this contract for payment and shall correspond with the effort performed.

\*\*\* END OF NARRATIVE G 0001 \*\*\*

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SECTION H - SPECIAL CONTRACT REQUIREMENTS

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
H-1	252.204-7000	DISCLOSURE OF INFORMATION	DEC/1991
H-2	252.225-7006	QUARTERLY REPORTING OF ACTUAL CONTRACT PERFORMANCE OUTSIDE THE UNITED STATES	APR/2005
H-3	252.225-7013	DUTY-FREE ENTRY	JUN/2005
H-4	252.226-7001	UTILIZATION OF INDIAN ORGANIZATIONS, INDIAN-OWNED ECONOMIC ENTERPRISES, AND NATIVE HAWAIIAN SMALL BUSINESS CONCERNS	SEP/2004
H-5	252.235-7011	FINAL SCIENTIFIC OR TECHNICAL REPORT	NOV/2004
H-6	252.246-7000	MATERIAL INSPECTION AND RECEIVING REPORT	MAR/2003
H-7	252.246-7001	WARRANTY OF DATA	DEC/1991
H-8	252.227-7039	PATENTS -- REPORTING OF SUBJECT INVENTIONS	APR/1990

The Contractor shall furnish the Contracting Officer the following:

(a) Interim reports every twelve (12) months (or such longer period as may be specified by the Contracting Officer) from the date of the contract, listing subject inventions during that period and stating that all subject inventions have been disclosed or that there are no such inventions.

(b) A final report, within three (3) months after completion of the contracted work, listing all subject inventions or stating that there were no such inventions.

(c) Upon request, the filing date, serial number and title, a copy of the patent application and patent number, and issue data for any subject invention for which the Contractor has retained title.

(d) Upon request, the Contractor shall furnish the Government an irrevocable power to inspect and make copies of the patent application file.

(End of clause)

H-9	52.204-4005	REQUIRED USE OF ELECTRONIC CONTRACTING	SEP/2004
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(a) All contract awards, modifications and delivery orders issued by TACOM will be issued electronically. The contractor has the option to receive these actions either via the Worldwide Web (WWW) or Electronic Data Interchange (EDI). Many provisions/clauses that appear "by reference", meaning only clause titles and regulation site are listed; their full texts can be found at the website <http://farsite.hill.af.mil/>

(b) In order to be eligible to receive an award under this solicitation, the successful offeror must be registered with the Department of Defense (DOD) Central Contractor Registration (CCR). The CCR registration process may be done electronically at the World Wide Web (WWW) site: <http://www.ccr.gov/>. (In order to be registered to use EDI, you must use the long form for registration. Certification information, including information on the EDI 838 TPP, must be furnished to the Contracting Officer within 60 calendar days after contract award to complete networking requirements within the Government.)

(c) Worldwide Web Distribution. The contractor will receive an electronic Notice of the Award, Modification, or Delivery Order via e-mail. If you choose the WWW option, you must download the file from the appropriate TACOM webpage:

Warren: <http://contracting.tacom.army.mil/awd.htm>  
Rock Island: <https://aaais.ria.army.mil/AAIS/AWDINFO/index.htm>  
Picatinny: <http://procnnet.pica.army.mil/dbi/DynCBD/award.cfm>  
Red River Army Depot: <http://www.redriver.army.mil/contractingframes/RecentAwards.DPD.cfm>  
Anniston Army Depot: <http://www.anadprocnnet.army.mil/>

(d) Electronic Data Interchange. If you choose to receive contract awards, modifications and delivery orders through EDI, they will be delivered electronically via the Federal Acquisition Network (FACNET). Federal Standard Version 3050 of Standard X12 from the American National Standards Institute (ANSI) will be used as the format for these electronic transactions.

(1) You must complete the EDI 838 Trading Partner Profile, and must agree (i) to subcontract with a DoD certified VAN or Value Added Service (VAS) provider, or (ii) to become DoD certified as a Value Added Network (VAN). The EDI 838 Training Partner Profile is contained in the basic CCR registration form and includes portions of the registration form which are titled "Optional".

(2) You must select a VAN from the official DoD approved list. DoD Certified VANs are listed at <http://www.acq.osd.mil/dpap/ebiz/VANs.htm>. If your VAN is later removed from the official list, or if you voluntarily drop your initially selected VAN, then you must switch to a VAN that remains on the official DoD approved list. You must maintain an active

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account on a DoD approved VAN for the entire duration of the contract, beginning no later than the 60th day after award.

(e) Unless otherwise specified elsewhere in the contract, all data items you are required to provide under this contract must be submitted electronically. Please go to the following webpage for detailed information about submitting your offer electronically: <http://contracting.tacom.army.mil/ebidnotice.htm>

(f) Additional information can be obtained by sending a message to: [acqcenweb@tacom.army.mil](mailto:acqcenweb@tacom.army.mil) or by calling (586) 574-7059.

[End of Clause]

H-10	52.216-4008	STATUS OF FUNDS ON COST REIMBURSEMENT CONTRACTS/CLINS	JUN/1989
	(TACOM)		

(a) The Contractor shall review the funding as it relates to work performed on the cost-reimbursement Contract Line Item Numbers (CLINs) under this contract and shall provide to the Procuring Contracting Officer (PCO) a written determination of what, if any, funds are excess to requirements (leaving a reasonable amount for final overhead rate negotiations and other reasonably predicted requirements) and are available for deobligation. This review shall be coordinated with the Administrative Contracting Officer (ACO), and the written determination shall be accomplished within 120 days of completion of performance under the CLIN. The report shall be prepared in terms of dollars available per Purchase Request Order Number (PRON), unless requested otherwise by the PCO.

(b) This report may be requested in writing by the PCO on additional occasions during the course of performance of work on cost-reimbursable CLINS contained in this contract. On such occasions, the written report shall be provided to the PCO within 14 days of Contractor receipt of the written request.  
(End of clause)

H-11	52.246-4026	LOCAL ADDRESSES FOR DD FORM 250 AND WAWF RECEIVING REPORTS	SEP/2006
	(TACOM)		

(a) The Contractor may use either the Material Inspection and Receiving Report (DD 250) or Wide Area Workflow (WAWF) to process receiving reports for inspection, acceptance, and payment. Use only one method per contract; not both.

(b) If you are using the Material Inspection and Receiving Report (DD 250), use one of the following methods to send each DD 250 pertaining to this contract to us:

- (1) Our first preference is for you to use electronic mail (e-mail), using the following e-mail address: [DD250@tacom.army.mil](mailto:DD250@tacom.army.mil)
- (2) Our second preference is for you to use data facsimile (datafax) transmission, using this fax number:  
  
(586) 574-7788 and use "DD250 mailbox" in the "to:" block of your fax cover or header sheet.

In either method, do not mix DD250s from more than one contract in a single transmission. That is, you may submit multiple DD250s in a single transmission, but they must all be against the same contract. These copies meet the requirements for the Purchasing Office copy and the Army Inventory Control Manager copy listed in tables 1 and 2 of DFARS Appendix F. The DD250 form may be found, in three different formats, on the World Wide Web at <http://www.dtic.mil/whs/directives/infomgt/forms/forminfo/forminfo2126.html>

(c) If you are using Wide Area Workflow (WAWF) instead of DD 250s, we may require copies of the WAWF Receiving Report, Bills of Lading, or other documentation to resolve delinquencies, payment issues, or other administrative issues. If this documentation is requested, use the same email address or fax number shown in paragraph (b) above to submit the information. No copies of the WAWF Receiving Report are required unless specifically requested by the PCO, buyer, or other appropriate government official.

[End of Clause]

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SECTION I - CONTRACT CLAUSES

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this address: <http://farsite.hill.af.mil/>

[End of Clause]

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
I-1	52.202-1	DEFINITIONS	JUL/2004
I-2	52.203-3	GRATUITIES	APR/1984
I-3	52.203-5	COVENANT AGAINST CONTINGENT FEES	APR/1984
I-4	52.203-6	RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT	SEP/2006
I-5	52.203-7	ANTI-KICKBACK PROCEDURES	JUL/1995
I-6	52.203-8	CANCELLATION, RESCISSION AND RECOVERY OF FUNDS FOR ILLEGAL OR IMPROPER ACTIVITY	JAN/1997
I-7	52.203-10	PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR IMPROPER ACTIVITY	JAN/1997
I-8	52.203-12	LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS	SEP/2005
I-9	52.204-4	PRINTING/COPYING DOUBLE-SIDED ON RECYCLED PAPER	AUG/2000
I-10	52.209-6	PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT	SEP/2006
I-11	52.211-15	DEFENSE PRIORITY AND ALLOCATION REQUIREMENTS	SEP/1990
I-12	52.215-2 (ALT II)	AUDIT AND RECORDS - NEGOTIATION (ALTERNATE II--APR 1998)	JUN/1999
I-13	52.215-8	ORDER OF PRECEDENCE--UNIFORM CONTRACT FORMAT	OCT/1997
I-14	52.215-10	PRICE REDUCTION FOR DEFECTIVE COST OR PRICING DATA	OCT/1997
I-15	52.215-12	SUBCONTRACTOR COST OR PRICING DATA	OCT/1997
I-16	52.215-14	INTEGRITY OF UNIT PRICES (ALTERNATE I, (OCT 1997))	OCT/1997
I-17	52.215-15	PENSION ADJUSTMENTS AND ASSET REVERSIONS	OCT/2004
I-18	52.215-18	REVERSION OR ADJUSTMENT OF PLANS FOR POSTRETIREMENT BENEFITS (PRB) OTHER THAN PENSIONS	JUL/2005
I-19	52.215-19	NOTIFICATION OF OWNERSHIP CHANGES	OCT/1997
I-20	52.216-7	ALLOWABLE COST AND PAYMENT note: Delete from paragraph (a) the words SUBPART 31.2 and substitute SUBPART 31.3	DEC/2002
I-21	52.216-11	COST CONTRACT--NO FEE (ALTERNATE I (1984 APR))	APR/1984
I-22	52.216-15	PREDETERMINED INDIRECT COST RATES	APR/1998
I-23	52.219-8	UTILIZATION OF SMALL BUSINESS CONCERNS	MAY/2004
I-24	52.219-9	SMALL BUSINESS SUBCONTRACTING PLAN	SEP/2006
I-25	52.219-16	LIQUIDATED DAMAGES - SUBCONTRACTING PLAN	JAN/1999
I-26	52.222-1	NOTICE TO THE GOVERNMENT OF LABOR DISPUTES	FEB/1997
I-27	52.222-21	PROHIBITION OF SEGREGATED FACILITIES	FEB/1999
I-28	52.222-26	EQUAL OPPORTUNITY	APR/2002
I-29	52.222-35	EQUAL OPPORTUNITY FOR SPECIAL DISABLED VETERANS, VETERANS OF THE VIETNAM ERA, AND OTHER ELIGIBLE VETERANS	SEP/2006
I-30	52.222-36	AFFIRMATIVE ACTION FOR WORKERS WITH DISABILITIES	JUN/1998
I-31	52.222-37	EMPLOYMENT REPORTS ON SPECIAL DISABLED VETERANS, VETERANS OF THE VIETNAM ERA, AND OTHER ELIGIBLE VETERANS	SEP/2006
I-32	52.223-6	DRUG FREE WORKPLACE	MAY/2001
I-33	52.225-13	RESTRICTIONS ON CERTAIN FOREIGN PURCHASES	FEB/2006
I-34	52.227-1	AUTHORIZATION AND CONSENT (ALTERNATE I dated April 1984)	JUL/1995
I-35	52.227-2	NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT	AUG/1996
I-36	52.227-11	PATENT RIGHTS--RETENTION BY THE CONTRACTOR (SHORT FORM)	JUN/1997
I-37	52.228-7	INSURANCE--LIABILITY TO THIRD PERSONS	MAR/1996
I-38	52.230-5	COST ACCOUNTING STANDARDS - EDUCATIONAL INSTITUTIONS	APR/1998
I-39	52.232-9	LIMITATION ON WITHHOLDING OF PAYMENTS	APR/1984
I-40	52.232-20	LIMITATION OF COST	APR/1984
I-41	52.232-25	PROMPT PAYMENT	OCT/2003
I-42	52.232-33	PAYMENT BY ELECTRONIC FUNDS TRANSFER--CENTRAL CONTRACTOR REGISTRATION	OCT/2003
I-43	52.232-23 (ALT 1)	ASSIGNMENT OF CLAIMS (Alternate I version dated April 1984)	JAN/1986
I-44	52.233-1	DISPUTES	JUL/2002
I-45	52.233-3	PROTEST AFTER AWARD -- (ALTERNATE I, dated JUN 1985)	AUG/1996
I-46	52.233-4	APPLICABLE LAW FOR BREACH OF CONTRACT CLAIM	OCT/2004
I-47	52.242-1	NOTICE OF INTENT TO DISALLOW COSTS	APR/1984

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I-48	52.242-3	PENALTIES FOR UNALLOWABLE COSTS	MAY/2001
I-49	52.242-13	BANKRUPTCY	JUL/1995
I-50	52.243-2	CHANGES--COST-REIMBURSEMENT (ALTERNATE V, dated April 1984))	AUG/1987
I-51	52.244-2	SUBCONTRACTS	AUG/1998
I-52	52.244-5	COMPETITION IN SUBCONTRACTING	DEC/1996
I-53	52.244-6	SUBCONTRACTS FOR COMMERCIAL ITEMS	SEP/2006
I-54	52.245-5	GOVERNMENT PROPERTY (COST-REIMBURSEMENT, TIME-AND-MATERIAL, OR LABOR-HOUR CONTRACTS) --ALTERNATE I (JUN 2003) (91-DEV-44) (Army Policy Alert Bulletin #97-009)	MAY/2004
I-55	52.246-25	LIMITATION OF LIABILITY--SERVICES	FEB/1997
I-56	52.249-5	TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (EDUCATIONAL AND OTHER NONPROFIT INSTITUTIONS)	SEP/1996
I-57	52.253-1	COMPUTER GENERATED FORMS	JAN/1991
I-58	252.203-7001	PROHIBITION ON PERSONS CONVICTED OF FRAUD OR OTHER DEFENSE CONTRACT-RELATED FELONIES	DEC/2004
I-59	252.204-7003	CONTROL OF GOVERNMENT PERSONNEL WORK PRODUCT	APR/1992
I-60	252.209-7004	SUBCONTRACTING WITH FIRMS THAT ARE OWNED OR CONTROLLED BY THE GOVERNMENT OF A TERRORIST COUNTRY per DoD interim rule, Federal Register 27 Mar 98	MAR/1998
I-61	252.209-7005	MILITARY RECRUITING ON CAMPUS	JAN/2000
I-62	252.211-7005	SUBSTITUTIONS FOR MILITARY OR FEDERAL SPECIFICATIONS AND STANDARDS	NOV/2005
I-63	252.215-7000	PRICING ADJUSTMENTS	DEC/1991
I-64	252.215-7002	COST ESTIMATING SYSTEM REQUIREMENTS	OCT/1998
I-65	252.219-7003	SMALL, SMALL DISADVANTAGED AND WOMEN-OWNED SMALL BUSINESS SUBCONTRACTING PLAN (DOD CONTRACTS)	APR/1996
I-66	252.225-7012	PREFERENCE FOR CERTAIN DOMESTIC COMMODITIES	JUN/2004
I-67	252.225-7031	SECONDARY ARAB BOYCOTT OF ISRAEL	JUN/2005
I-68	252.227-7013	RIGHTS IN TECHNICAL DATA --NONCOMMERCIAL ITEMS	NOV/1995
I-69	252.227-7016	RIGHTS IN BID OR PROPOSAL INFORMATION	JUN/1995
I-70	252.227-7017	IDENTIFICATION AND ASSERTION OF USE, RELEASE, OR DISCLOSURE RESTRICTIONS	JUN/1995
I-71	252.227-7030	TECHNICAL DATA--WITHHOLDING OF PAYMENT	MAR/2000
I-72	252.227-7034	PATENTS--SUBCONTRACTS	APR/1984
I-73	252.227-7037	VALIDATION OF RESTRICTIVE MARKINGS ON TECHNICAL DATA	SEP/1999
I-74	252.232-7010	LEVIES ON CONTRACT PAYMENTS	SEP/2005
I-75	252.243-7002	REQUESTS FOR EQUITABLE ADJUSTMENT	MAR/1998
I-76	252.244-7000	SUBCONTRACTS FOR COMMERCIAL ITEMS AND COMMERCIAL COMPONENTS (DoD CONTRACTS)	NOV/2005
I-77	252.247-7023	TRANSPORTATION OF SUPPLIES BY SEA	MAY/2002
I-78	52.222-2	PAYMENT FOR OVERTIME PREMIUMS	JUL/1990

(a) The use of overtime is authorized under this contract if the overtime premium cost does not exceed \$0 or the overtime premium is paid for work--

- (1) Necessary to cope with emergencies such as those resulting from accidents, natural disasters, breakdown of production equipment, or occasional production bottlenecks of a sporadic nature;
- (2) By indirect-labor employees such as those performing duties in connection with administration, protection, transportation, maintenance, standby plant protection, operation of utilities, or accounting;
- (3) To perform tests, industrial processes, laboratory procedures, loading or unloading of transportation conveyances, and operations in flight or afloat that are continuous in nature and cannot reasonably be interrupted or completed otherwise; or
- (4) That will result in lower overall costs to the Government.

(b) Any request for estimated overtime premiums that exceeds the amount specified above shall include all estimated overtime for contract completion and shall--

- (1) Identify the work unit; e.g., department or section in which the requested overtime will be used, together with present workload, staffing, and other data of the affected unit sufficient to permit the Contracting Officer to evaluate the necessity for the overtime;
- (2) Demonstrate the effect that denial of the request will have on the contract delivery or performance schedule;
- (3) Identify the extent to which approval of overtime would affect the performance or payments in connection with other Government contracts, together with identification of each affected contract; and
- (4) Provide reasons why the required work cannot be performed by using multishift operations or by employing additional personnel.

(End of clause)

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I-79                      52.223-7                      NOTICE OF RADIOACTIVE MATERIALS                      JAN/1997

(a) The Contractor shall notify the Contracting Officer or designee, in writing 60 days prior to the delivery of, or prior to completion of any servicing required by this contract of, items containing either (1) radioactive material requiring specific licensing under the regulations issued pursuant to the Atomic Energy Act of 1954, as amended, as set forth in Title 10 of the Code of Federal Regulations, in effect on the date of this contract, or (2) other radioactive material not requiring specific licensing in which the specific activity is greater than 0.002 microcuries per gram or the activity per item equals or exceeds 0.01 microcuries. Such notice shall specify the part or parts of the items which contain radioactive materials, a description of the materials, the name and activity of the isotope, the manufacturer of the materials, and any other information known to the Contractor which will put users of the items on notice as to the hazards involved (OMB No. 9000-0107).

(b) If there has been no change affecting the quantity of activity, or the characteristics and composition of the radioactive material from deliveries under this contract or prior contracts the Contractor may request that the Contracting Officer or designee waive the notice requirement in paragraph (a) of this clause. Any such request shall-

(1) Be submitted in writing;

(2) State that the quantity of activity, characteristics, and composition of the radioactive material have not changed; and

(3) Cite the contract number on which the prior notification was submitted and the contracting office to which it was submitted.

(c) All items, parts, or subassemblies which contain radioactive materials in which the specific activity is greater than 0.002 microcuries per gram or activity per item equals or exceeds 0.01 microcuries, and all containers in which such items, parts or subassemblies are delivered to the Government shall be clearly marked and labeled as required by the latest revision of MIL-STD 129 in effect on the date of the contract.

(d) This clause, including this paragraph (d), shall be inserted in all subcontracts for radioactive materials meeting the criteria in paragraph (a) of this clause.

[End of Clause]

I-80                      52.204-7                      CENTRAL CONTRACTOR REGISTRATION                      JUL/2006

(a) Definitions. As used in this clause--

"Central Contractor Registration (CCR) database" means the primary Government repository for contractor information required for the conduct of business with the Government.

"Commercial and Government Entity (CAGE) code" means-

(1) A code assigned by the Defense Logistics Information Service (DLIS) to identify a commercial or Government entity; or

(2) A code assigned by a member of the North Atlantic Treaty Organization that DLIS records and maintains in the CAGE master file. This type of code is known as an "NCAGE code."

"Data Universal Numbering System (DUNS) number" means the 9-digit number assigned by Dun and Bradstreet, Inc. (D&B) to identify unique business entities.

"Data Universal Numbering System +4 (DUNS+4) number" means the DUNS number assigned by D&B plus a 4-character suffix that may be assigned by a business concern. (D&B has no affiliation with this 4-character suffix.) This 4-character suffix may be assigned at the discretion of the business concern to establish additional CCR records for identifying alternative Electronic Funds Transfer (EFT) accounts (see Subpart 32.11 of the Federal Acquisition Regulation) for the same parent concern.

"Registered in the CCR database" means that-

(1) The Contractor has entered all mandatory information, including the DUNS number or the DUNS+4 number, into the CCR database;

(2) The Government has validated all mandatory data fields, to include validation of the Taxpayer Identification Number (TIN) with the Internal Revenue Service (IRS), and has marked the record ``Active''. The Contractor will be required to provide consent for

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TIN validation to the Government as a part of the CCR registration process.

(b)

(1) By submission of an offer, the offeror acknowledges the requirement that a prospective awardee shall be registered in the CCR database prior to award, during performance, and through final payment of any contract, basic agreement, basic ordering agreement, or blanket purchasing agreement resulting from this solicitation.

(2) The offeror shall enter, in the block with its name and address on the cover page of its offer, the annotation DUNS or DUNS+4 followed by the DUNS or DUNS+4 number that identifies the offerors name and address exactly as stated in the offer. The DUNS number will be used by the Contracting Officer to verify that the offeror is registered in the CCR database.

(c) If the offeror does not have a DUNS number, it should contact Dun and Bradstreet directly to obtain one.

(1) An offeror may obtain a DUNS number

(i) If located within the United States, by calling Dun and Bradstreet at 1-866-705-5711 or via the Internet at <http://www.dnb.com/> ; or

(ii) If located outside the United States, by contacting the local Dun and Bradstreet office.

(2) The offeror should be prepared to provide the following information:

(i) Company legal business name.

(ii) Tradestyle, doing business, or other name by which your entity is commonly recognized.

(iii) Company physical street address, city, state and Zip Code.

(iv) Company mailing address, city, state and Zip Code (if separate from physical).

(v) Company telephone number.

(vi) Date the company was started.

(vii) Number of employees at your location.

(viii) Chief executive officer/key manager.

(ix) Line of business (industry).

(x) Company Headquarters name and address (reporting relationship within your entity).

(d) If the Offeror does not become registered in the CCR database in the time prescribed by the Contracting Officer, the Contracting Officer will proceed to award to the next otherwise successful registered Offeror.

(e) Processing time, which normally takes 48 hours, should be taken into consideration when registering. Offerors who are not registered should consider applying for registration immediately upon receipt of this solicitation.

(f) The Contractor is responsible for the accuracy and completeness of the data within the CCR database, and for any liability resulting from the Governments reliance on inaccurate or incomplete data. To remain registered in the CCR database after the initial registration, the Contractor is required to review and update on an annual basis from the date of initial registration or subsequent updates its information in the CCR database to ensure it is current, accurate and complete. Updating information in the CCR does not alter the terms and conditions of this contract and is not a substitute for a properly executed contractual document.

(1)

(i) If a Contractor has legally changed its business name, doing business as name, or division name (whichever is shown on the contract), or has transferred the assets used in performing the contract, but has not completed the necessary requirements regarding novation and change-of-name agreements in Subpart 42.12, the Contractor shall provide the responsible Contracting Officer a minimum of one business days written notification of its intention to:

(A) Change the name in the CCR database;

(B) Comply with the requirements of Subpart 42.12 of the FAR;

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(C) Agree in writing to the timeline and procedures specified by the responsible Contracting Officer.  
The Contractor must provide with the notification sufficient documentation to support the legally changed name.

(ii) If the Contractor fails to comply with the requirements of paragraph (g)(1)(i) of this clause, or fails to perform the agreement at paragraph (g)(1)(i)(C) of this clause, and, in the absence of a properly executed novation or change-of-name agreement, the CCR information that shows the Contractor to be other than the Contractor indicated in the contract will be considered to be incorrect information within the meaning of the Suspension of Payment paragraph of the electronic funds transfer (EFT) clause of this contract.

(2) The Contractor shall not change the name or address for EFT payments or manual payments, as appropriate, in the CCR record to reflect an assignee for the purpose of assignment of claims (see FAR Subpart 32.8, Assignment of Claims). Assignees shall be separately registered in the CCR database. Information provided to the Contractors CCR record that indicates payments, including those made by EFT, to an ultimate recipient other than that Contractor will be considered to be incorrect information within the meaning of the Suspension of payment paragraph of the EFT clause of this contract.

(g) Offerors and Contractors may obtain information on registration and annual confirmation requirements via the Internet at <http://www.ccr.gov/> or by calling 1-888-227-2423, or 269-961-5757.

[End of Clause]

I-81      52.222-39      NOTIFICATION OF EMPLOYEE RIGHTS CONCERNING PAYMENT OF UNION DUES OR      DEC/2004  
FEES

(a) Definition. As used in this clause--

United States means the 50 States, the District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, and Wake Island.

(b) Except as provided in paragraph (e) of this clause, during the term of this contract, the Contractor shall post a notice, in the form of a poster, informing employees of their rights concerning union membership and payment of union dues and fees, in conspicuous places in and about all its plants and offices, including all places where notices to employees are customarily posted. The notice shall include the following information (except that the information pertaining to National Labor Relations Board shall not be included in notices posted in the plants or offices of carriers subject to the Railway Labor Act, as amended (45 U.S.C. 151-188)).

#### Notice to Employees

Under Federal law, employees cannot be required to join a union or maintain membership in a union in order to retain their jobs. Under certain conditions, the law permits a union and an employer to enter into a union-security agreement requiring employees to pay uniform periodic dues and initiation fees. However, employees who are not union members can object to the use of their payments for certain purposes and can only be required to pay their share of union costs relating to collective bargaining, contract administration, and grievance adjustment.

If you do not want to pay that portion of dues or fees used to support activities not related to collective bargaining, contract administration, or grievance adjustment, you are entitled to an appropriate reduction in your payment. If you believe that you have been required to pay dues or fees used in part to support activities not related to collective bargaining, contract administration, or grievance adjustment, you may be entitled to a refund and to an appropriate reduction in future payments.

For further information concerning your rights, you may wish to contact the National Labor Relations Board (NLRB) either at one of its Regional offices or at the following address or toll free number:

National Labor Relations Board  
Division of Information  
1099 14th Street, N.W.  
Washington, DC 20570  
1-866-667-6572  
1-866-316-6572 (TTY)

To locate the nearest NLRB office, see NLRB's website at <http://www.nlrb.gov> .

(c) The Contractor shall comply with all provisions of Executive Order 13201 of February 17, 2001, and related implementing regulations at 29 CFR part 470, and orders of the Secretary of Labor.

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(d) In the event that the Contractor does not comply with any of the requirements set forth in paragraphs (b), (c), or (g), the Secretary may direct that this contract be cancelled, terminated, or suspended in whole or in part, and declare the Contractor ineligible for further Government contracts in accordance with procedures at 29 CFR part 470, Subpart B--Compliance Evaluations, Complaint Investigations and Enforcement Procedures. Such other sanctions or remedies may be imposed as are provided by 29 CFR part 470, which implements Executive Order 13201, or as are otherwise provided by law.

(e) The requirement to post the employee notice in paragraph (b) does not apply to--

(1) Contractors and subcontractors that employ fewer than 15 persons;

(2) Contractor establishments or construction work sites where no union has been formally recognized by the Contractor or certified as the exclusive bargaining representative of the Contractor's employees;

(3) Contractor establishments or construction work sites located in a jurisdiction named in the definition of the United States in which the law of that jurisdiction forbids enforcement of union-security agreements;

(4) Contractor facilities where upon the written request of the Contractor, the Department of Labor Deputy Assistant Secretary for Labor-Management Programs has waived the posting requirements with respect to any of the Contractor's facilities if the Deputy Assistant Secretary finds that the Contractor has demonstrated that--

(i) The facility is in all respects separate and distinct from activities of the Contractor related to the performance of a contract; and

(ii) Such a waiver will not interfere with or impede the effectuation of the Executive order; or

(5) Work outside the United States that does not involve the recruitment or employment of workers within the United States.

(f) The Department of Labor publishes the official employee notice in two variations; one for contractors covered by the Railway Labor Act and a second for all other contractors. The Contractor shall--

(1) Obtain the required employee notice poster from the Division of Interpretations and Standards, Office of Labor-Management Standards, U.S. Department of Labor, 200 Constitution Avenue, NW, Room N-5605, Washington, DC 20210, or from any field office of the Department's Office of Labor-Management Standards or Office of Federal Contract Compliance Programs;

(2) Download a copy of the poster from the Office of Labor-Management Standards website at <http://www.olms.dol.gov>; or

(3) Reproduce and use exact duplicate copies of the Department of Labor's official poster.

(g) The Contractor shall include the substance of this clause in every subcontract or purchase order that exceeds the simplified acquisition threshold, entered into in connection with this contract, unless exempted by the Department of Labor Deputy Assistant Secretary for Labor-Management Programs on account of special circumstances in the national interest under authority of 29 CFR 470.3(c). For indefinite quantity subcontracts, the Contractor shall include the substance of this clause if the value of orders in any calendar year of the subcontract is expected to exceed the simplified acquisition threshold. Pursuant to 29 CFR part 470, Subpart B--Compliance Evaluations, Complaint Investigations and Enforcement Procedures, the Secretary of Labor may direct the Contractor to take such action in the enforcement of these regulations, including the imposition of sanctions for noncompliance with respect to any such subcontract or purchase order. If the Contractor becomes involved in litigation with a subcontractor or vendor, or is threatened with such involvement, as a result of such direction, the Contractor may request the United States, through the Secretary of Labor, to enter into such litigation to protect the interests of the United States.

[End of Clause]

I-82      52.223-11      OZONE-DEPLETING SUBSTANCES      MAY/2001

(a) Definition. Ozone-depleting substance, as used in this clause, means any substance the Environmental Protection Agency designates in 40 CFR part 82 as--

(1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or

(2) Class II, including but not limited to, hydrochlorofluorocarbons.

(b) The Contractor shall label products which contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j(b), (c), and (d) and 40 CFR Part 82, Subpart E, as follows:

WARNING: Contains (or manufactured with, if applicable) \_\_\_\_\_ \* \_\_\_\_\_, a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.

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\*The Contractor shall insert the name of the substance(s).

[End of Clause]

I-83 52.252-6 AUTHORIZED DEVIATIONS IN CLAUSES APR/1984

(a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of (DEVIATION) after the date of the clause.

(b) The use in this solicitation or contract of any DoD FAR Supplement (DFARS) (48 CFR 2) clause with an authorized deviation is indicated by the addition of (DEVIATION) after the name of the regulation.

[End of Clause]

I-84 52.204-4009 MANDATORY USE OF CONTRACTOR TO GOVERNMENT ELECTRONIC COMMUNICATION MAR/2005  
(TACOM)

(a) All references in the contract to the submission of written documentation shall mean electronic submission. All electronic submissions shall be in the formats and media described in the website:  
<http://contracting.tacom.army.mil/ebidnotice.htm>

(b) This shall include all written unclassified communications between the Government and the Contractor except contract awards and contract modifications which shall be posted on the internet. Return receipt shall be used if a commercial application is available. Classified information shall be handled in full accordance with the appropriate security requirements.

(c) In order to be contractually binding, all Government communications requiring a Contracting Officer signature must be sent from the Contracting Officer's e-mail address. The Contractor shall designate the personnel with signature authority who can contractually bind the contractor. All binding contractor communication shall be sent from this contractor e-mail address(es).

(d) Upon award, the Contractor shall provide the Contracting Officer with a list of e-mail addresses for all administrative and technical personnel assigned to this contract.

(e) Unless exempted by the Procuring Contracting Officer in writing, all unclassified written communication after contract award shall be transmitted electronically.

[End of Clause]

I-85 52.219-4070 PILOT MENTOR-PROTEGE PROGRAM APR/2006

(a) The Pilot Mentor-Protege Program does not apply to small business concerns.

(b) Utilization of the Pilot Mentor-Protege Program (hereafter referred to as the Program) is encouraged. Under the Program, eligible companies approved as mentor firms enter into a mentor-protege agreement with eligible protege firms. The goal of the program is to provide appropriate developmental assistance to enhance the capabilities of the protege firm. The Mentor firm may be eligible for cost reimbursement or credit against their applicable subcontracting goals.

(c) Mentor firms are encouraged to identify and select concerns that are defined as emerging small business concerns, small disadvantaged business, women-owned small business, HUBZone small business, service-disabled veteran-owned small business, veteran-owned small business or an eligible entity employing the severely disabled.

(d) Full details of the program are located at [http://www.acq.osd.mil/sadbu/mentor\\_protege/](http://www.acq.osd.mil/sadbu/mentor_protege/), <http://sellingtoarmy.info/>, DFARS Appendix I, and DFARS Subpart 219.71, "Pilot Mentor-Protege Program."

(e) For additional questions after reviewing the information provided, contact the Office of Small Business Programs serving your area.

[End of Clause]

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SECTION J - LIST OF ATTACHMENTS

<u>List of</u> <u>Addenda</u>	<u>Title</u>	<u>Date</u>	<u>Number</u> <u>of Pages</u>	<u>Transmitted By</u>
Exhibit A	CONTRACT DATA REQUIREMENTS LIST	21-MAY-2007	003	

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SECTION K - REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF OFFERORS

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
K-1	252.209-7001	DISCLOSURE OF OWNERSHIP OR CONTROL BY THE GOVERNMENT OF A TERRORIST COUNTRY	SEP/2004
K-2	252.227-7028	TECHNICAL DATA OR COMPUTER SOFTWARE PREVIOUSLY DELIVERED TO THE GOVERNMENT	JUN/1995
K-3	52.204-8	ANNUAL REPRESENTATIONS AND CERTIFICATIONS	JAN/2006
(a)			

(1) The North American Industry Classification System (NAICS) code for this acquisition is 541710.

(2) The small business size standard is 500.

(3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.

(b)

(1) If the clause at 52.204-7, Central Contractor Registration, is included in this solicitation, paragraph (c) of this provision applies.

(2) If the clause at 52.204-7 is not included in this solicitation, and the offeror is currently registered in CCR, and has completed the ORCA electronically, the offeror may choose to use paragraph (c) of this provision instead of completing the corresponding individual representations and certifications in the solicitation. The offeror shall indicate which option applies by checking one of the following boxes:

☐ (i) Paragraph (c) applies.

☐ (ii) Paragraph (c) does not apply and the offeror has completed the individual representations and certifications in the solicitation.

(c) The offeror has completed the annual representations and certifications electronically via the Online Representations and Certifications Application (ORCA) website at <http://orca.bpn.gov>. After reviewing the ORCA database information, the offeror verifies by submission of the offer that the representations and certifications currently posted electronically have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer and are incorporated in this offer by reference (see FAR 4.1201); except for the changes identified below [offeror to insert changes, identifying change by clause number, title, date]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

<u>FAR Clause</u>	<u>Title</u>	<u>Date</u>	<u>Change</u>
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Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted on ORCA.

[End of Provision]

K-4	52.225-18	PLACE OF MANUFACTURE	SEP/2006
(a)	Definitions. As used in this clause		
	Manufactured end product means any end product in Federal Supply Classes (FSC) 1000-9999, except		
	(1) FSC 5510, Lumber and Related Basic Wood Materials;		
	(2) Federal Supply Group (FSG) 87, Agricultural Supplies;		
	(3) FSG 88, Live Animals;		
	(4) FSG 89, Food and Related Consumables;		
	(5) FSC 9410, Crude Grades of Plant Materials;		
	(6) FSC 9430, Miscellaneous Crude Animal Products, Inedible;		
	(7) FSC 9440, Miscellaneous Crude Agricultural and Forestry Products;		
	(8) FSC 9610, Ores;		
	(9) FSC 9620, Minerals, Natural and Synthetic; and		
	(10) FSC 9630, Additive Metal Materials.		

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Place of manufacture means the place where an end product is assembled out of components, or otherwise made or processed from raw materials into the finished product that is to be provided to the Government. If a product is disassembled and reassembled, the place of reassembly is not the place of manufacture.

(b) For statistical purposes only, the offeror shall indicate whether the place of manufacture of the end products it expects to provide in response to this solicitation is predominantly

- (1) ☐ In the United States (Check this box if the total anticipated price of offered end products manufactured in the United States exceeds the total anticipated price of offered end products manufactured outside the United States); or
- (2) ☐ Outside the United States.

(End of provision)

K-5                      52.230-7                      PROPOSAL DISCLOSURE--COST ACCOUNTING PRACTICE CHANGES                      APR/2005

The offeror shall check "yes" below if the contract award will result in a required or unilateral change in cost accounting practice, including unilateral changes requested to be desirable changes.

☐ Yes ☐ No

If the offeror checked "Yes" above, the offeror shall--

(1) Prepare the price proposal in response to the solicitation using the changed practice for the period of performance for which the practice will be used; and

(2) Submit a description of the changed cost accounting practice to the Contracting Officer and the Cognizant Federal Agency Official as pricing support for the proposal.

[End of Provision]

K-6                      252.225-7000                      BUY AMERICAN ACT - BALANCE OF PAYMENTS PROGRAM CERTIFICATE                      JUN/2005

(a) Definitions. "Domestic end product," "foreign end product," "qualifying country," "qualifying country end product," and "United States" have the meanings given in the Buy American Act and Balance of Payments Program clause of this solicitation.

(b) Evaluation. The Government--

(1) Will evaluate offers in accordance with the policies and procedures of Part 225 of the Defense Federal Acquisition Regulation Supplement; and

(2) Will evaluate offers of qualifying country end products without regard to the restrictions of the Buy American Act or the Balance of Payments Program.

(c) Certifications and identification of country of origin.

(1) For all line items subject to the Buy American Act and Balance of Payments Program clause of this solicitation, the offeror certifies that--

- (i) Each end product, except those listed in paragraphs (c)(2) or (3) of this provision, is a domestic end product; and
- (ii) Components of unknown origin are considered to have been mined, produced, or manufactured outside the United States or a qualifying country.

(2) The offeror certifies that the following end products are qualifying country end products:

Line Item Number	Country of Origin
_____	_____
_____	_____

(3) The following end products are other foreign end products:

Line Item Number	Country of Origin (If known)
_____	_____

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[End of Provision]

K-7 252.235-7010 ACKNOWLEDGMENT OF SUPPORT AND DISCLAIMER MAY/1995

(a) The Contractor shall include an acknowledgment of the Government's support in the publication of any material based on or developed under this contract, stated in the following terms: This material is based upon work supported by the \_\_\_\_\_ (name of contracting agency(ies)) under Contract No. \_\_\_\_\_ (Contracting agency(ies) contract number(s)) \_\_\_\_\_.

(b) All material, except scientific articles or papers published in scientific journals, must, in addition to any notices or disclaimers by the Contractor, also contain the following disclaimer: Any opinions, findings and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the \_\_\_\_\_ (name of contracting agency(ies)) \_\_\_\_\_.

(End of clause)

K-8 252.247-7022 REPRESENTATION OF EXTENT OF TRANSPORTATION BY SEA AUG/1992

(a) The Offeror shall indicate by checking the appropriate blank in paragraph (b) of this provision whether transportation of supplies by sea is anticipated under the resultant contract. The term supplies is defined in the Transportation of Supplies by Sea clause of this solicitation.

(b) Representation. The Offeror represents that it--

[ ] Does anticipate that supplies will be transported by sea in the performance of any contract or subcontract resulting from this solicitation.

[ ] Does not anticipate that supplies will be transported by sea in the performance of any contract or subcontract resulting from this solicitation.

(c) Any contract resulting from this solicitation will include the Transportation of Supplies by Sea clause. If the Offeror represents that it will not use ocean transportation, the resulting contract will also include the Defense FAR Supplement clause at 252.247-7024, Notification of Transportation of Supplies by Sea.

[End of Provision]

K-9 52.204-4007 OFFEROR'S DATAFAX NUMBER, E-MAIL ADDRESS, AND CAGE CODE MAR/2001  
(TACOM)

(a) If you have a data fax number, please provide it below.

\_\_\_\_\_

(b) If you have a company Internet address that we can use in the future when sending out electronic notices and possibly solicitations, please provide the complete e-mail address below.

\_\_\_\_\_

(c) Provide your CAGE (Contractor And Government Entity) code below. If you don't have a CAGE code for your specific company name and address, enter NONE in the space below, and apply to Central Contractor Registration at the following website: <http://www.ccr.gov/>

\_\_\_\_\_

[End of Provision]

K-10 52.215-4010 AUTHORIZED NEGOTIATORS JAN/1998  
(TACOM)

Please identify, below, the representatives that are authorized to negotiate on your organization's behalf with the Government in connection with this request for proposals or request for information:

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PERSONS AUTHORIZED TO NEGOTIATE

<u>NAME</u>	<u>TITLE</u>	<u>TELEPHONE NUMBER</u>
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>

[End of Provision]

K-11            52.223-4002            USE OF CLASS I OZONE-DEPLETING SUBSTANCES (CIODS)            DEC/1993  
                  (TACOM)

(a) Definitions.

(1) Class I Ozone-Depleting Substances (CIODS) refers to the class of substances identified in Section 602(a) of the Clean Air Act, (42 U.S.C. 7671a(a)), as reproduced below:

- (i) chlorofluorocarbon-11 (CFC-11)
- (ii) chlorofluorocarbon-12 (CFC-12)
- (iii) chlorofluorocarbon-13 (CFC-13)
- (iv) chlorofluorocarbon-111 (CFC-111)
- (v) chlorofluorocarbon-112 (CFC-112)
- (vi) chlorofluorocarbon-113 (CFC-113)
- (vii) chlorofluorocarbon-114 (CFC-114)
- (viii) chlorofluorocarbon-115 (CFC-115)
- (ix) chlorofluorocarbon-211 (CFC-211)
- (x) chlorofluorocarbon-212 (CFC-212)
- (xi) chlorofluorocarbon-213 (CFC-213)
- (xii) chlorofluorocarbon-214 (CFC-214)
- (xiii) chlorofluorocarbon-215 (CFC-215)
- (xiv) chlorofluorocarbon-216 (CFC-216)
- (xv) chlorofluorocarbon-217 (CFC-217)
- (xvi) halon-1211
- (xvii) halon-1301
- (xviii) halon-2402
- (xix) carbon tetrachloride
- (xx) methyl chloroform
- (xxi) Methyl bromide
- (xxii) hydrobromofluorocarbons (HBFCs)
- (xxiii) All isomers of the substances listed in this paragraph (a)(1) except for 1,1,2-trichloroethane, which is an isomer of methyl chloroform.

(2) Directly requires the use of CIODS means that the Government's specification or technical data package, at any tier, explicitly requires the use of any Class I Ozone-Depleting Substance (CIODS) in performance of the contract.

(3) Indirectly requires the use of CIODS means that the Government's specification or technical data package, while not explicitly requiring the use of any CIODS, does require a feature that you can meet or produce only by the use of CIODS.

(b) Per Section 326 of Public Law 102-484, the Department of Defense cannot award any contract that directly or indirectly requires the use of CIODS unless (i) the use of such substances is essential for contract performance, and (ii) no suitable substitute for the CIODS currently is available.

(c) Before releasing this solicitation, we conducted a best effort review of its technical requirements, standards, and specifications, to see if any contain requirements for CIODS. If we identified any such CIODS requirements, they are identified in subparagraph (d)(1) below.

(1) In addition, to help TACOM meet its obligations under Public Law 102-484, we ask you for input. If you have any special knowledge about any CIODS requirements that our specifications impose, whether directly or indirectly, or if you know about potential substitutes for any CIODS required by our specifications, we would appreciate the information.

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(2) It should be understood that you are not obligated to give us the information requested by this provision, and that we cannot provide any separate or special payment for doing so. However, we are asking only for information based on knowledge that is readily available to you as a supplier in this industry. We do not expect you to do any review of our specifications more extensive than the one you perform in order to develop your price.

(d) Please summarize your own review of our specification/technical data package, by completing the following:

(1) During our review of the specification or technical data package in this solicitation, we--

☐ have

☐ have not

found any direct requirements to use any CIODS. (If have is checked above, offerors are asked to identify, on the following lines, (i) any specifications and standards not already listed immediately below that directly require the use of CIODS; (ii) the CIODS required by the listed specifications and standards; and (iii) whether any substitutes are known to be available for the listed CIODS.)

<u>Spec/Standard</u>	<u>Required CIODS</u>	<u>Substitute Available?</u>
_____	_____	_____
_____	_____	_____

(2) Further, in our review of the specification or technical data package in this solicitation, we--

☐ have

☐ have not

found any indirect requirements to use any CIODS. (Offerors who check have above are asked to identify, on the following lines, (i) the specifications and standards for this acquisition that indirectly require the use of CIODS; (ii) the CIODS indirectly required by each listed specification and standard; and (iii) whether any substitutes are known to be available for the listed CIODS.)

<u>Spec/Standard</u>	<u>Required CIODS</u>	<u>Substitute Available?</u>
_____	_____	_____
_____	_____	_____

(e) Offerors who check have in paragraphs (d)(1) or (2) above also are requested to say whether substitutes are known to be available for any of the CIODS. If an available substitute would perform less well than the CIODS would perform, please let us know what the technical trade-offs are to the extent that you have such information available.

(f) If you checked have in paragraphs (d)(1) or (2) above, and also indicated that substitutes for CIODS are available, we need to know whether use of the suggested substitute would have any effect on your proposed price. If your proposal price for compliance with our current specifications differs from what your price would be if the substitute for CIODS were required, we ask that you let us know what the difference would be in Section B of this solicitation, by giving us two prices or offers:

--One price/offer, labeled with CIODS, will be the offered price in the event that CIODS are used.

--The second price/offer, labeled without CIODS, will be the price offered if substitutes for CIODS are used, and will specify the substitute(s) being proposed for use.

(g) Section 326 of Public Law 102-484 reflects the national and international interest in minimizing the use of CIODS. For this reason, TACOM reserves the right to (i) determine the suitability of substitutes for CIODS when such potential substitutes are available; and (ii) change the specification in any contract awarded as a result of this solicitation, to require the use of suitable substitutes in lieu of CIODS.

[End of Provision]

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SECTION L - INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this address: <http://farsite.hill.af.mil/>

[End of Provision]

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
L-1	52.211-2	AVAILABILITY OF SPECIFICATIONS LISTED IN THE DOD INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) AND DESCRIPTIONS LISTED IN THE ACQUISITION MANAGEMENT SYSTEMS AND DATA REQUIREMENTS CONTROL LIST, DOD 5010.12-L	JAN/2006
L-2	52.214-34	SUBMISSION OF OFFERS IN THE ENGLISH LANGUAGE	APR/1991
L-3	52.214-35	SUBMISSION OF OFFERS IN U.S. CURRENCY	APR/1991
L-4	52.215-1	INSTRUCTIONS TO OFFERORS--COMPETITIVE ACQUISITIONS (ALTERNATE I (OCT 1997) AND ALTERNATE II (OCT 1997))	JAN/2004
L-5	252.204-7001	COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE REPORTING	AUG/1999
L-6	52.215-20	REQUIREMENTS FOR COST OR PRICING DATA OR INFORMATION OTHER THAN COST OR PRICING DATA (ALTERNATE III, OCT 1997)	OCT/1997

(a) Exceptions from cost or pricing data.

(1) In lieu of submitting cost or pricing data, offerors may submit a written request for exception by submitting the information described in the following subparagraphs. The Contracting Officer may require additional supporting information, but only to the extent necessary to determine whether an exception should be granted, and whether the price is fair and reasonable.

(i) Identification of the law or regulation establishing the price offered. If the price is controlled under law by periodic rulings, reviews, or similar actions of a governmental body, attach a copy of the controlling document, unless it was previously submitted to the contracting office.

(ii) Commercial item exception. For a commercial item exception, the offeror shall submit, at a minimum, information on prices at which the same item or similar items have previously been sold in the commercial market that is adequate for evaluating the reasonableness of the price for this acquisition. Such information may include --

- (A) For catalog items, a copy of or identification of the catalog and its date, or the appropriate pages for the offered items, or a statement that the catalog is on file in the buying office to which the proposal is being submitted. Provide a copy or describe current discount policies and price lists (published or unpublished), e.g., wholesale, original equipment manufacturer, or reseller. Also explain the basis of each offered price and its relationship to the established catalog price, including how the proposed price relates to the price of recent sales in quantities similar to the proposed quantities;
- (B) For market-priced items, the source and date or period of the market quotation or other basis for market price, the base amount, and applicable discounts. In addition, describe the nature of the market;
- (C) For items included on an active Federal Supply Service Multiple Award Schedule contract, proof that an exception has been granted for the schedule item.

(2) The offeror grants the Contracting Officer or an authorized representative the right to examine, at any time before award, books, records, documents, or other directly pertinent records to verify any request for an exception under this provision, and the reasonableness of price. For items priced using catalog or market prices, or law or regulation, access does not extend to cost or profit information or other data relevant solely to the offerors determination of the prices to be offered in the catalog or marketplace.

(b) Requirements for cost or pricing data. If the offeror is not granted an exception from the requirement to submit cost or pricing data, the following applies:

(1) The offeror shall prepare and submit cost or pricing data and supporting attachments in accordance with Table 15-2 of FAR 15.408.

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(2) As soon as practicable after agreement on price, but before contract award (except for unpriced actions such as letter contracts), the offeror shall submit a Certificate of Current Cost or Pricing Data, as prescribed by FAR 15.406-2.

(c) Submit the cost portion of the proposal via the following electronic media:  
http://contracting.tacom.army.mil/acqinfo/ebidnotice.htm

[End of Provision]

L-7                    52.216-1                    TYPE OF CONTRACT                    APR/1984  
The Government contemplates award of a cost reimbursement only (no fee) contract resulting from this solicitation.  
(End of provision)

L-8                    52.211-1                    AVAILABILITY OF SPECIFICATIONS LISTED IN THE GSA INDEX OF FEDERAL                    AUG/1998  
SPECIFICATIONS, STANDARDS AND COMMERCIAL ITEM DESCRIPTIONS, FPMR PART  
101-29

(a) The GSA Index of Federal Specifications, Standards and Commercial Item Descriptions, FPMR Part 101-29, and copies of specifications, standards, and commercial item descriptions cited in this solicitation may be obtained for a fee by submitting a request to--

GSA Federal Supply Service  
Specifications Section, Suite 8100  
470 East L'Enfant Plaza SW  
Washington, DC 20407

Telephone (202) 619-8925

Facsimile (202) 619-8978

(b) If the General Services Administration, Department of Agriculture, or Department of Veterans Affairs issued this solicitation, a single copy of specifications, standards, and commercial item descriptions cited in this solicitation may be obtained free of charge by submitting a request to the addressee in paragraph (a) of this provision. Additional copies will be issued for a fee.

[End of Provision]

L-9                    52.214-35                    SUBMISSION OF OFFERS IN U.S. CURRENCY                    APR/1991  
Offers submitted in response to this solicitation shall be in terms of U.S. dollars. Offers received in other than U.S. dollars shall be rejected.

(end of provision).

L-10                    52.233-2                    SERVICE OF PROTEST                    AUG/1996

(a) Protests, as defined in Section 33.101 of the Federal Acquisition Regulation, that are filed directly with an agency, and copies of any protests that are filed with the General Accounting Office (GAO), shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgement of receipt from:

USA TACOM-LCMC  
ATTN: AMSTA-AQ (Acquisition Center)  
(Protest Coordinator)  
Warren, MI 48397-5000

or

HQ, Army Materiel Command  
Office of Command Counsel  
ATTN: AMCCC-PL  
9301 Chapek Road, Rm 2-1SE3401  
Ft. Belvoir, VA 22060  
Facsimile number (703) 806-8866/806-8875

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The AMC-Level protest procedures are found at: [www.amc.army.mil/amc/command\\_counsel/protest/protest.html](http://www.amc.army.mil/amc/command_counsel/protest/protest.html).

If Internet access is not available, contact the Contracting Officer or HQ, AMC to obtain the AMC-Level Protest Procedures.

Telegraphic transmission of protest will not be authorized, unless specifically approved by the PCO.

(b) The copy of any protest shall be received in the U.S. Army Tank-automotive and Armaments Command office designated above within one day of filing a protest with the GAO.

[End of Provision]

L-11                      52.233-4001                      HQ-AMC LEVEL PROTEST PROCEDURES                      OCT/2006  
(TACOM)

(a) Policy: A protest to an AMC forum is a protest to the agency, within the meaning of FAR 33.103. The HQ, AMC-Level Protest Program is intended to encourage an interested party to seek resolution of its concerns within AMC, rather than filing a protest with the General Accounting Office (GAO), or other external forum.

(b) Agency Protest: An AMC Protest may be filed with either, but not both:

- (1) The contracting officer designated in the solicitation for resolution of protests, or,
- (2) HQ, AMC at the address designated below.

(c) Election of Forum: After an interested party protests an AMC procurement to HQ, AMC and while that protest is pending, the protestor agrees not to file a protest with the GAO, or other external forum. If the protestor has filed a protest with the GAO, or other external forum, HQ, AMC-Level protest procedures may not be used and any protest that has been filed will be dismissed.

(d) Protest Decision Authority: The AMC Command Counsel is designated as the HQ, AMC Protest Decision Authority. In the absence of the Command Counsel, the Deputy Command Counsel is designated as the HQ, AMC Protest Decision Authority.

(e) Time for Filing a Protest: HQ, AMC protest shall be filed in accordance with the timeframes set out in FAR 33.103(e). HQ, AMC Office Hours are 8:00 am--4:30 pm Eastern Time. Time for filing any document expires at 4:30 pm, Eastern Time on the last day on which such filing may be made.

(f) Form of Protest: HQ, AMC protest shall include the protestor's name, address and telephone number, including fax number; the solicitation or contract number, identity of the contracting activity and the contracting officer's name; a statement of all legal and factual grounds for protest, including copies of all relevant documents; a request for a ruling; and, a request for relief. All protests must be signed by an authorized representative of the protestor.

(g) Processing of HQ, AMC-Level Protests:

- (1) To file an AMC-level protest, send the protest to:

HQ Army Materiel Command  
Office of Command Counsel  
9301 Chapek Road, Rm 2-1SE3401  
Ft. Belvoir, VA 22060

Fax #: (703) 806-8866 or (703) 806-8875

If you have a web browser, you can use the following HTTP to view the complete AMC-level protest procedures:  
[http://www.amc.army.mil:8765/cs.html?url=http%3A//www.amc.army.mil/amc/command\\_counsel/protestlink.htm&qt=bid+protest&col=hqamc&n=1](http://www.amc.army.mil:8765/cs.html?url=http%3A//www.amc.army.mil/amc/command_counsel/protestlink.htm&qt=bid+protest&col=hqamc&n=1)

(2) Within 10 working days after the protest is filed, the Contracting Officer, with the assistance of legal counsel, shall file with the HQ, AMC Office of Command Counsel, ATTN: AMCCC-PL, an administrative report responsive to the protest. Reports shall be sent by facsimile, over-night mail or hand-delivered, to ensure timely receipt.

(3) The HQ, AMC Protest Decision Authority will issue a written decision within 20 working days after the filing of the protest.

- (4) The written decision will be binding on the Army Materiel Command and its contracting activities.

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(5) For good cause shown, the HQ, AMC Protest Decision Authority may grant extensions of time for filing the administrative report and for the issuance of the written decision. When such an extension is granted, the protestor and all interested parties shall be notified within 1 working day of the decision to grant the extension.

(h) Effect of Protest on Award and Performance:

(1) Protests before award: When a protest is filed with HQ, AMC prior to award, a contract may not be awarded unless authorized by the Assistant Deputy Chief of Staff (ADCS) for Acquisition, Contracting and Production Management, HQ, AMC, in accordance with FAR 33.103(f).

(2) Protests after award: When a protest is filed with HQ, AMC within 10 calendar days after award, or within five calendar days of debriefing for any debriefing that when requested was required by FAR 15.806, the contracting officer shall suspend performance. The HQ, AMC ADCS for Acquisition, Contracting and Production Management may authorize contract performance, notwithstanding the protest, upon a written finding that:

- contract performance will be in the best interests of the United States; or
- urgent and compelling circumstances that significantly affect the interests of the United States will not permit waiting for a decision from the HQ, AMC Protest Decision Authority.

(i) Remedies: The HQ, AMC Protest Decision Authority may grant any one or combination of the following remedies:

- (1) terminate the contract;
- (2) re-compete the requirement;
- (3) issue a new solicitation;
- (4) refrain from exercising options under the contract;
- (5) award a contract consistent with statute and regulation;
- (6) pay appropriate costs as stated in FAR 33.102(b)(2); and
- (7) such other remedies as HQ, AMC Protest Decision Authority determines necessary to correct a defect.

[End of Provision]

L-12	52.215-4003 (TACOM)	HANDCARRIED OFFERS - INCLUDING OFFERS DELIVERED BY EXPRESS SERVICES (NON-US POSTAL SERVICE MAIL)	DEC/2002
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(a) Handcarried offers shall be addressed to:

US Army Tank-automotive and Armaments Command  
Acquisition Center  
Bid Lobby - Building 231, AMSTA-AQ-AMAD  
East 11 Mile Road  
Warren, MI. 48397-0001

(b) Offers shall not be addressed to an individual buyer. All offers must be addressed to the Bid Lobby at the above address.

(c) The external delivery envelope or wrapper must be marked with the solicitation number and the date and time of the solicitation closing. Each envelope should contain only one offer.

(d) Handcarried offers must be delivered to the TACOM Receiving Dock in Building 249. Directions to TACOM: From Van Dyke Avenue, travel westbound on 11 Mile Road; enter the first Arsenal gate immediately west of the railroad tracks on the north side of the street. Take an immediate right and follow security officer directions to the Receiving Dock in Building 249. The driver may need to obtain a visitors badge, and must be a US citizen. The Government will forward the package to the Bid Lobby address in Building 231.

(e) Offerors must ensure that the commercial carrier they use has a tracking system that can provide documentation of the date and time of delivery to the Government. For handcarried offers delivered by other than a commercial carrier, the offeror must ensure that the delivery person obtains a signature from Receiving Dock personnel on a receipt that shows the date and time of delivery to the

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Government. The delivery person must provide the receipt since Receiving Dock personnel do not have them.

- (f) Packages must be delivered to Building 249 between the hours of 8:00 am and 3:00 pm local time.

[End of Provision]

L-13      52.215-4004      COST OR PRICING DATA      SEP/2005

(a) Every proposal must include cost or pricing data for (i) prime contracts expected to exceed \$550,000 and (ii) each prospective noncompetitive or noncommercial-item subcontract that:

- (1) Has an estimated value of \$10 million or more, or

- (2) Has an estimated value of more than \$550,000 and is more than 10% of the total contract price.

(b) In order to meet this requirement, you must include a certificate of current cost or pricing data, in the format specified in 15.406-2 (see paragraph (d) below).

- (c) Data shall be submitted in the format indicated in Table 15-2 of FAR 15.408(m).

(1) Address both (i) the basic contractual quantities identified in Section B of this solicitation, and (ii) any applicable option quantity identified in Section H of this solicitation.

- (2) For required subcontractor cost or pricing data:

- (i) Clearly identify the sub-contracted scope of work and its relation to the total proposal, and

(ii) Include (or forward to the Procuring Contracting Officer (PCO) when first available) complete documentation of the subcontract proposal audit, analysis, evaluation, and negotiation.

(3) Concurrently furnish the complete package of information to the cognizant Defense Contract Management Area Operation (DCMC) and Defense Contract Audit Agency (DCAA) offices. You are also responsible for submitting all required subcontractor cost or pricing data to each of these three Government offices (or for ensuring that subcontractors forward their data directly).

(d) Certificate of Current Cost or Pricing Data. As soon as practicable after contract price agreement, you will furnish a Certificate of Current Cost or Pricing Data for the prime contract and each subcontract identified above.

[End of Provision]

L-14      52.215-4404      DATA AND COMMUNICATIONS SUBMITTED TO THE GOVERNMENT ELECTRONICALLY      MAY/2002

(a) The Government often employs contractors as system administrators to operate and maintain Government computer systems. These systems include local area networks, web sites, databases, other electronic records, e-mail accounts, other electronic data transfer mechanisms and computer software. The employees of these contracted system administrators sign nondisclosure agreements obligating them not to reveal information contained in files, documents, computers or systems that they administer. However, unless such information is protected in some way, contracted system administrators do have the ability to access such information. For further information on security issues, see <http://contracting.tacom.army.mil/acqinfo/ebidnotice.htm>

(b) Potential contractors as well as any other parties are thus advised to take steps needed to prevent access by contracted system administrators to information submitted electronically to the Government. Absent such steps, it is assumed that contracted system administrators are permitted the capability to access the data. The access will be limited to that which is necessary for the contract system administrator to perform its duties for the Government. The access shall be subject to the condition that third party information is not to be revealed by the contracted system administrator.

[End of Provision]

L-15      52.219-4005      SUBMISSION OF SUBCONTRACTING PLAN      FEB/1999  
(TACOM)

(a) Please refer to FAR 52.219-9, SMALL BUSINESS AND SMALL DISADVANTAGED BUSINESS SUBCONTRACTING PLAN, which is incorporated by reference in Section I of this solicitation. The clause requires large businesses to submit a subcontracting plan for small and small

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> W56HZV-07-R-0422 <b>MOD/AMD</b>	<b>Page 38 of 38</b>
<b>Name of Offeror or Contractor:</b>		

disadvantaged business concerns. Such plans are not required from offerors that are small businesses.

(b) TACOM will require a copy of such subcontracting plan. Large businesses may submit a copy of their plans (i) as an attachment to their offer in response to this solicitation; or (ii) after the bid opening/proposal closing date, in response to the Government's telephonic request (in which case the copy must be provided within five workdays of the date of the request). The plan will be submitted to the buyer's e-mail address on the face page of the solicitation.

(c) As the offeror, you need to mark each page of your subcontracting plan with the solicitation number and date. If this is a negotiated acquisition, we reserve the right to negotiate any and all elements of the proposed plan during negotiation of cost, technical, and/or managerial features of the proposal. We also reserve the right in negotiated acquisitions to discuss the subcontracting plan after receipt of any best and final offer, in which case such discussion shall not constitute a re-opening of negotiations.

(d) Failure to submit and, if applicable, negotiate an acceptable subcontracting plan which, in the judgment of the Contracting Officer, provides the maximum practicable opportunity for small business and small disadvantaged business concerns to participate in the awarded contract shall render the offeror ineligible for award. In this connection, offerors should be aware of the statutory goal that has been placed on the Department of Defense to award five percent of its total planned subcontracting dollars to small disadvantaged businesses (to include Historically Black Colleges and Universities and Minority Institutions) at the prime contract and subcontract levels. In view of this Congressional mandate, large businesses shall provide specific explanation as a part of any written subcontracting plan furnished in response to this solicitation/contract that identifies a goal for subcontracting to small disadvantaged business concerns and/or Historically Black Colleges and Universities and/or Minority Institutions that, in the aggregate, amounts to less than five percent of the bid or proposal's total subcontracting dollars.

CONTRACT DATA REQUIREMENT LIST

Form Approval OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO.: D. SYSTEM/ITEM.....: Military Fuels Research Program  
B. EXHIBIT : A E. CONTRACT/PR NO.:W56HZV-07-R-0422  
C. CATEGORY.....: F. CONTRACTOR.....:University of Kentucky Research Foundation

1. DATA ITEM NO. ....: A001  
2. TITLE OF DATA ITEM : Conference Minutes  
3. SUBTITLE .....: Conference / Meeting Minutes  
4. AUTHORITY .....: DI-ADMN-81250A  
5. CONTRACT REFERENCE: C.3.1  
6. REQUIRING OFFICE .: AMSRD-TAR-IN / MS 272 9. DIST. STATEMENT REQUIRED: NO 12. DATE OF FIRST SUB: ASGEN  
7. DD250 REQ .....: LT 10. FREQUENCY : ASREQ 13. DATE OF SUBS. SUB: ASREQ  
8. APP CODE .....: N/A 11. AS OF DATE: N/A

14. DISTRIBUTION ADDRESSEES: SUBMIT REPORTS ELECTRONICALLY TO THE E-MAIL ADDRESSES SHOWN IMMEDIATELY BELOW:

A. ADDRESSEE	B. COPIES	
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PAT MUZZELL, CONTRACTING OFFICER'S REPRESENTATIVE (COR), E-MAIL: PAT.MUZZELL@US.ARMY.MIL	1	1
ERIC SATTLER, TARDEC ENGINEER, E-MAIL: ERIC.SATTLER@US.ARMY.MIL		1
LUIS VILLAHERMOSA, TARDEC ENGINEER, E-MAIL: LUIS.A.VILLAHERMOSA@US.ARMY.MIL		1
HARMONY HUNSANGER, CONTRACT SPECIALIST, E-MAIL: HARMONY.HUNSANGER@US.ARMY.MIL		1
15. TOTAL:	1	4
16. REMARKS:		

Conference / meeting minutes to be recorded and distributed to all parties within five (5) business days after meeting.

17. PRICE GROUP: 18. ESTIMATED TOTAL PRICE:

1. DATA ITEM NO. ....: A002  
2. TITLE OF DATA ITEM : Scientific and Technical Report  
3. SUBTITLE .....: Draft / Final Technical Report  
4. AUTHORITY .....: DI-MISC-80711A(T)  
5. CONTRACT REFERENCE: C.3.2  
6. REQUIRING OFFICE .: AMSRD-TAR-IN / MS 272 9. DIST. STATEMENT REQUIRED: NO 12. DATE OF FIRST SUB: 12 MAC  
7. DD250 REQ .....: DD 10. FREQUENCY : 1 TIME 13. DATE OF SUBS. SUB: EOC  
8. APP CODE .....: N/A 11. AS OF DATE: N/A

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ERIC SATTTLER, TARDEC ENGINEER,	E-MAIL: ERIC.SATTTLER@US.ARMY.MIL		1
LUIS VILLAHERMOSA, TARDEC ENGINEER,	E-MAIL: LUIS.A.VILLAHERMOSA@US.ARMY.MIL		1
HARMONY HUNSANGER, CONTRACT SPECIALIST,	E-MAIL: HARMONY.HUNSANGER@US.ARMY.MIL		1
JOHN CHIAPPE, ADMINISTRATIVE CONTRACTING OFFICER (ACO),	E-MAIL: JOHN.CHIAPPE@NAVY.MIL		1

15. TOTAL: 1 5

16. REMARKS:

a. DI-MISC-80711A is tailored by deleting 10.2.

b. The contractor shall deliver one (1) draft "Scientific and Technical Report," thirty (3) days before the end of the period of performance. The COR shall review the draft report and return it to the contractor within fifteen (15) days of receipt with comments. The contractor shall submit one (1) final "Scientific and Technical Report" within fifteen (15) days after receipt of draft comments.

17. PRICE GROUP: 18. ESTIMATED TOTAL PRICE:

1. DATA ITEM NO. ....: A003  
2. TITLE OF DATA ITEM : Contractor's Progress, Status, and Management Report  
3. SUBTITLE .....: Progress Reports  
4. AUTHORITY .....: DI-MGMT-80227(T) (see 16a. below)  
5. CONTRACT REFERENCE: C.3.3  
6. REQUIRING OFFICE .: AMSRD-TAR-IN / MS 272 9. DIST. STATEMENT REQUIRED: NO 12. DATE OF FIRST SUB: 90 DAC  
7. DD250 REQ .....: LT 10. FREQUENCY : QRTLY 13. DATE OF SUBS. SUB: 180 DAC  
8. APP CODE .....: N/A 11. AS OF DATE: N/A

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ERIC SATTTLER, TARDEC ENGINEER,	E-MAIL: ERIC.SATTTLER@US.ARMY.MIL		1
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HARMONY HUNSANGER, CONTRACT SPECIALIST,	E-MAIL: HARMONY.HUNSANGER@US.ARMY.MIL		1
JOHN CHIAPPE, ADMINISTRATIVE CONTRACTING OFFICER (ACO),	E-MAIL: JOHN.CHIAPPE@NAVY.MIL		1

15. TOTAL: 1 5

16. REMARKS:

a. DI-MGMT-80227 is tailored by modifying 10.3.h to read, "Total funds expended, by task, for the reporting period; cumulative total funds spent to date; and percentage of total contract funds spent to date. State whether or not remaining funds are sufficient to complete the task."

b. DI-MGMT-80227 is also tailored by deleting 10.2, 10.3(j), 10.3(k), and 10.3(l).

c. No Progress Report to be submitted at the time the Final Technical Report is submitted.

17. PRICE GROUP: 18. ESTIMATED TOTAL PRICE:

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\*\*\*\*\* THE FOLLOWING INSTRUCTION APPLIES TO ALL REPORTS DELIVERABLE UNDER THE CONTRACT \*\*\*\*\*

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Prepare the reports in Contractor format. Submit the reports using any of the following electronic formats:

- (1) Files readable using these Microsoft\* Office XP or Microsoft\* Office 2002 & lower Products: Word, Excel, PowerPoint, or Access. Spreadsheets must be sent in a file format that includes all formulae, macro and format information. Print or scan images of spreadsheets are not acceptable. Please see security note below for caution regarding use of macros.
- (2) Files in Adobe PDF (Portable Document Format). When scanning documents, scanner should be set to 200 dots per inch.
- (3) Files in HTML (Hypertext Markup Language) Format. HTML documents must not contain active links to Internet websites or web pages for reference information. All linked information must be contained within your electronic report, and be accessible offline.
- (4) Other electronic formats. Before preparing your report in any other electronic format, please e-mail the COR, with an e-mail copy-furnished to amsta-idg@tacom.army.mil, to obtain a decision as to the format's acceptability. This e-mail must be received by the COR not later than ten (10) calendar days before the draft report's due date. All alternate methods must be at no cost to the Government.
- (5) Please note that we can no longer accept .zip files due to increasing security concerns.

NOTE. Macros: The virus scanning software used by our e-mail systems cannot always distinguish a macro from a virus. Therefore, sending a macro embedded in an e-mail message or an e-mail attachment may cause the e-mail report to be quarantined.

d. Acceptable media: The Contractor shall submit reports via e-mail. If e-mail is not workable, another acceptable media is a 650 megabyte CD ROM. Identify the software application and version used to create each file submitted.

- (1) E-MAIL. Maximum size of each e-mail message shall be three and one-half (3.5) megabytes. Previously "zipped" files were accepted, but due to security concerns these zipped attachments cannot be received through our mail system. You may use multiple e-mail messages if necessary, however, you must annotate the subject lines in this manner: "Message 1 of 3, 2 of 3, 3 of 3."
- (2) 650 MEGABYTE CD ROM to be delivered via U.S. Mail or other carrier. The Contractor shall label all submitted disks with the Contract number, the Contractor's name and address, and a contact's phone number. Exterior mailing envelopes containing disks must be addressed to the following address:

MS. PAT MUZZELL, AMSRD-TAR-IN, MS 272  
U.S. Army TACOM Life Cycle Management Command (TACOM LCMC)  
6501 East 11 Mile Road  
Warren, MI 48397-5000

NOTE: Please select only one type of electronic media to transmit each report. For instance, do not submit a report via e-mail and CD-ROM.

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